Programme	Exam Code	Course Code
Bachelor of Arts	121201	AECD-1161
Bachelor of Science (Medical)	121301	
Bachelor of Science (Non-Medical)		
Bachelor of Science (Computer Science)		
Bachelor of Science (Economics)		
Bachelor of Commerce	121101	
Bachelor of Business Administration	121701	
Bachelor of Arts (Journalism and Mass Communication)	116401	
Bachelor of Science (Fashion Designing)	119601	
Bachelor of Science (Home Science)	119701	
Bachelor of Computer Applications	117901	
Bachelor of Science (Information Technology)	118001	
Bachelor of Science (Bio-Technology)	120601	
Master of Arts (English) (FYIP)	508501	
Master of Science (Mathematics) (FYIP)	508401	
Master of Commerce (FYIP)	508301	
Bachelor of Vocation (Retail Management)	111801	
Bachelor of Vocation (Management and Secretarial Practices)	111601	
Bachelor of Vocation (Animation)	112201	
Bachelor of Vocation (Textile Design and Apparel Technology)	111201	
Bachelor of Vocation (Nutrition, Exercise and Health)	111401	
Bachelor of Vocation (Beauty and Wellness)	113801	
Bachelor of Vocation (Artificial Intelligence and Data Science)	114001	
Bachelor of Vocation (Hospitality and Tourism)	113901	

Semester-I

Course Title: Drug Abuse: Problem, Management and Prevention (Compulsory)
(700)

Time Allowed: 3 Hours   Max Marks: 40

NOTE :- Attempt five questions selecting at least one question from each section and the fifth question may be attempted from any section. All question carry 8 marks. The answer should be in 600 words.

Section-A

1. Explain in detail the nature of drug abuse.

2. What are the consequences of drug abuse on nation.

Section-B

3. Why relapse management is considered as most difficult management? Why is it so important.

4. How the environment and surroundings help in overcoming fear of drug addict.

Section-C

5. Discuss in detail the role of school in preventing drug abuse.

6. What role does parents play in preventing drug abuse.

Section-D

7. What are the types of legal interventions for drug abuse.

8. Describe the various therapies used for the treatment of drug abuse.

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Hindi Version

यूनिट–1

1. नशीली दवाओं के दुरुपयोग की प्रकृति को विस्तार से समझाइए।

2. राष्ट्र पर नशीली दवाओं के दुरुपयोग के क्या परिणाम होते हैं?

यूनिट–2

3. रिलैप्स प्रबंधन को सबसे कठिन प्रबंधन क्यों माना जाता है? यह इतना महत्वपूर्ण क्यों है।

4. मादक द्रव्य व्यसनी के भय पर काबू पाने में पर्यावरण और परिवेश किस प्रकार सहायता करते हैं।

यूनिट–3

5. नशीली दवाओं के दुरुपयोग को रोकने में स्कूल की भूमिका पर विस्तार से चर्चा करें।

6. नशीली दवाओं के दुरुपयोग को रोकने में माता–पिता की क्या भूमिका है?

यूनिट–4

7. नशीली दवाओं के दुरुपयोग के लिए कानूनी हस्तक्षेप के प्रकार क्या हैं?

8. नशीली दवाओं के दुरुपयोग के उपचार के लिए उपयोग की जाने वाली विभिन्न चिकित्साओं का वर्णन करें।

**********+

Punjabi Version

ਯੂਨਿਟ–1

1. ਨਸ਼ੀਲੇ ਪਦਾਰਥਾਂ ਦੀ ਦੁਰਵਰਤੋਂ ਦੀ ਪ੍ਰਕਿਰਤੀ ਬਾਰੇ ਵਿਸਥਾਰ ਵਿੱਚ ਦੱਸੋ?

2. ਦੇਸ਼ 'ਤੇ ਨਸ਼ੇ ਦੇ ਕੀ ਨਤੀਜੇ ਹਨ?

ਯੂਨਿਟ–2

3. ਰੀਲੈਪਸ ਪ੍ਰਬੰਧਨ ਨੂੰ ਸਭ ਤੋਂ ਮੁਸ਼ਕਲ ਪ੍ਰਬੰਧਨ ਕਿਉਂ ਮੰਨਿਆ ਜਾਂਦਾ ਹੈ? ਇਹ ਇੰਨਾ ਮਹੱਤਵਪੂਰਨ ਕਿਉਂ ਹੈ।

4. ਵਾਤਾਵਰਣ ਅਤੇ ਆਲੇ-ਦੁਆਲੇ ਦੇ ਮਾਹੌਲ ਨਸ਼ੇ ਦੇ ਆਦੀ ਵਿਅਕਤੀ ਦੇ ਡਰ ਨੂੰ ਦੂਰ ਕਰਨ ਵਿੱਚ ਕਿਵੇਂ ਮਦਦ ਕਰਦੇ ਹਨ।

ਯੂਨਿਟ–3

5. ਨਸ਼ਿਆਂ ਦੀ ਦੁਰਵਰਤੋਂ ਨੂੰ ਰੋਕਣ ਵਿੱਚ ਸਕੂਲ ਦੀ ਭੂਮਿਕਾ ਬਾਰੇ ਵਿਸਥਾਰ ਵਿੱਚ ਚਰਚਾ ਕਰੋ।

6. ਮਾਪੇ ਨਸ਼ੇ ਦੀ ਦੁਰਵਰਤੋਂ ਨੂੰ ਰੋਕਣ ਵਿੱਚ ਕੀ ਭੂਮਿਕਾ ਨਿਭਾਉਂਦੇ ਹਨ।

ਯੂਨਿਟ-4

7. ਨਸ਼ੇ ਦੀ ਦੁਰਵਰਤੋਂ ਲਈ ਕਾਨੂੰਨੀ ਦਖਲ ਦੀਆਂ ਕਿਸਮਾਂ ਕੀ ਹਨ।

8. ਨਸ਼ੀਲੇ ਪਦਾਰਥਾਂ ਦੀ ਦੁਰਵਰਤੋਂ ਦੇ ਇਲਾਜ ਲਈ ਵਰਤੀਆਂ ਜਾਂਦੀਆਂ ਵੱਖ-ਵੱਖ ਥੈਰੇਪੀਆਂ ਦਾ ਵਰਣਨ ਕਰੋ।

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Exam Code: 121201 / 121301   Paper Code: 1123

Programme: Bachelor of Arts / Bachelor of Science (Economics) Semester –I
Course Title: Banking (Banking and Basic Operations)
Course Code: BARL-1026 / BECL-1026

Time: 2:00 Hours   Max marks: 80

Note: Candidates are required to attempt forty (40) questions, selecting at least eight (8) questions
from each section. The remaining eight (8) questions may be attempted from any Section.
Each question carries 2 Marks.

Section A

1. First Bank established in India was:
   (a) Bank of India   (b) Bank of Hindustan
   (c) General Bank of India   (d) None of the above

2. The Largest and Oldest Bank, still in existence is:

   (a) Punjab National Bank   (b) Reserve Bank of India
   (c) State Bank of India   (d) None of the above

3. In India , the first bank of limited liabilities managed by Indians and founded in 1881 was
   (a) Hindustan Commercial Bank   (b) Oudh Commercial Bank
   (c) Punjab National Bank   (d) Punjab and Sind bank

4. Which bank became the State Bank of India in 1955?

   (a) General Bank of India   (b) Bank of Hindustan
   (c) Imperial bank of India   (d) None of the Above

5. Which of the following is the Oldest Joint Stock Bank of India which is still working?
   (a) Allahabad Bank   (b) Bank of Upper India
   (c) Patiala Bank   (d) State Bank of India

6. Recent Mega PSUs mergers reduce the number of Public sector Banks to

   (a) 11   (b) 13
   (c) 12   (d) 14

7. Which among the following banks form the "Imperial Bank of India" in 1921:

   (a) Bank of Bombay   (b) Bank of Madras
   (c) Bank of Bengal   (d) All of the Above

8. Which among the following is correct regarding Bank of Hindustan:

   (a) The bank was established at calcutta under European management.
   (b) It was liquidated on 1829 - 32.
   (c) Both of Above
   (d) None of The Above

9. When was the second phase of nationalization done?
   (a) 9th July, 1969   (b) 10th July, 1968
   (c) 16th August, 1985   (d) 15th April, 1980

10. The SARFAESI Act Amendment Bill 2016 provides the facilities that the District Magistrate has to
    assist in the recovery process of the secured creditors and complete process within

    (a) 10 days   (b) 30 days

11. Narasimham Committee recommended to reduce SLR and CLR to
    (a) 25% and 3.5% respectively
    (b) 24% and 3.5% respectively
    (c) 25% and 3% respectively
    (d) 25% and 5% respectively

12. The Banking Regulation Act was initially passed by what name?
    (a) Banking Firms Act, 1949
    (b) Banking Companies Act, 1949
    (c) Banking units Act, 1949
    (d) None

13. Which section was added in the Banking regulation Act to include the Cooperative Banks under its purview?
    (a) Section 61
    (b) Section 56
    (c) Section 35
    (d) Section 28

14. Which was the first Co-operative Bank established in India?
    (a) Bharat co-operative Bank Limited
    (b) Kangra Central co-operative Bank ltd.
    (c) Anyonya co-operative Bank Limited
    (d) Abhyudaya co-operative Bank

15. Which of these are at the lowest rung of Rural Cooperative banking structure in India?
    (a) State cooperative Banks
    (b) District Central Cooperative Banks
    (c) Primary Agricultural Credit societies
    (d) None of the Above

Section B

16. Banking Ombudsman deals with the matters less than or equal to
    (a) Rs. 2 Lakh
    (b) Rs. 10 Lakh
    (c) Rs. 50 Lakh
    (d) Rs. 2 Crore

17. When was Reserve bank of India nationalized?
    (a) 1949
    (b) 1935
    (c) 1955
    (d) 1969

18. The _____ is vested with the responsibility of conducting monetary policy.
    (a) SEBI
    (b) Reserve Bank of India
    (c) Central Government
    (d) Commercial Banks

19. Which of the following is one of the main functions of Reserve Bank of India?
    (a) Regulation of the stock markets
    (b) Regulation of the mutual funds in India
    (c) Banker's Bank
    (d) All of the above.

20. Which of the following is the sole authority for issue of currency in India?
    (a) Government of India
    (b) Reserve Bank of India
    (c) Controller of Currency
    (d) None of the above

21. Cash reserve Ratio is maintained in the form of:
    (a) Government securities
    (b) Balance with Reserve bank of India
    (c) Balance with state bank of India
    (d) All of the Above

22. The bank rate means:
    (a) Rate of interest charged by commercial banks from borrowers
    (b) Rate of interest at which commercial banks discounted bills of their borrowers
    (c) Rate of interest allowed by commercial banks on their deposits
    (d) Rate at which RBI purchases or rediscount bills of exchange of commercial banks.

23. What is financial Inclusion?

    (a) To provide a permanent employment to the unemployed.
    (b) To provide a 100 days job to all those who are in need of a job.
    (c) To provide banking services to all those living in remote areas.
    (d) To ensure that all financial transactions amounting Rs. 5,000/- and above are done through banks.

24. Which of the following is the full form of the term SLR as used in the banking sector?

    (a) Social lending Ratio
    (b) Statutory Liquidity Ratio
    (c) Scheduled Liquidity Rate
    (d) None of these

25. To calculate capital adequacy ratio, the banks are required to take into account which of the following risks?

    (a) Credit risk and operational risk
    (b) Market risk and operational risk
    (c) Credit risk and market risk
    (d) Credit risk, market risk, operational risk

26. The minimum total capital ratio including CCB that banks have to maintain as per Basel-III framework?

    (a) 2.5%
    (b) 3.5%
    (c) 9%
    (d) 10.5%

27. Basel-III was implemented in India in phased manner with effect from_____?

    (a) 1ˢᵗ April, 2013
    (b) 1ˢᵗ April, 2014
    (c) 1ˢᵗ April, 2015
    (d) 1ˢᵗ April, 2016

28. Which of the following is known as the third pillar of Basel-II accord?

    (a) Minimum capital requirement
    (b) Supervisory review process
    (c) Standard approach
    (d) Market discipline

29. What is the full form of NSFR?

    (a) Net stable fund ratio
    (b) Net sustainable funding ratio
    (c) Net stable funding ratio
    (d) Net stable fundable ratio

30. Consider the following statements regarding the policy instruments of the Reserve Bank of India(RBI) which relate to the liquidity absorption from the market.
    I. Reverse Repo operation is a collateralized window, i.e. banks receive government securities in exchange of money from the RBI.
    II. Standing deposit facility (SDF) is an uncollateralized window but is set at a higher interest rates.
    Which of the above statements is/are correct?

    (a) I only
    (b) II only
    (c) I and II only
    (d) None of the above

Section -C

31. A bank's fixed deposit is also referred to as a

    (a) term deposit
    (b) saving bank deposit
    (c) current deposit
    (d) home savings deposit

32. Which of the following types of accounts are known as 'DEMAT accounts"

    (a) Accounts in which shares of various companies are traded in electronic form,
    (b) Accounts which are zero balance accounts.
    (c) Accounts which are operated through internet banking facility.
    (d) Accounts which are opened to facilitate repayment of a loan taken from the bank.

33. Cheque truncation can be done by?

(a) using MICR Data
(b) Sending cheque by speed post
(c) using image processing
(d) None of the above

34. A cheque which is payable to a person whosoever bears it is known as?

(a) Blank Cheque
(b) Bearer Cheque
(c) Order Cheque
(d) Stale Cheque

35. A cheque with data written on it 01-02-2017 is presented in a bank on 05-02-2017. This cheque is an example of _____.

(a) Post-dated cheque
(b) Ante-dated cheque
(c) Stale cheque
(d) None of these

36. What is the full form of the NEFT.

(a) National Electronic fund transfer
(b) Negotiated Efficient fund transfer
(c) National Efficient fund transfer
(d) Non Effective Fund Transfer

37. Which payment mode is used for making bulk payment of amounts?

(a) NEFT
(b) RTGS
(c) IMPS
(d) ECS Credit

38. In which of the following fund transfer mechanisms, can funds be moved from one bank to another and where the transaction is settled instantly without being bunched with any other transaction?

(a) RTGS
(b) NEFT
(c) TT
(d) EFT

39. Unified Payment Interface has been developed by NPCL. What is NPCL.

(a) New Payments Corporation of India
(b) National Payments Company of India
(c) National Payments Corporation of India
(d) National Payments Corporation of Interface

40. Which payment service used by BHIM app?

(a) RTGS
(b) VPN
(c) IMPS
(d) NEFT

41. BHIM is an —— payment platform?

(a) Online
(b) Offline
(c) Peer to peer network
(d) Both a and b

42. To which of the following personalities is the BHIM app dedicated?

(a) Mahatma Gandhi
(b) Subhash Chandra Bose
(c) Dr. B.R Ambedkar
(d) Jawahar Lal Nehru

43. Consider the following statement(s) regarding IFSC.
    I.   IFSC is an alphanumeric code.
    II.   IFSC is the 11 digit code.
    III.   IFSC is used by NEFT

(a) I and II
(b) I, II and III
(c) II and III
(d) Only III

44. In banking, IFSC code stands for_____.

    (a) International Format System Code   (b) Indian Function System Code
    (c) International Forex System Code   (d) Indian Financial System Code

45. Telebanking Service is based on

    (a) Virtual banking   (b) Online banking
    (c) Voice banking   (d) Core banking

Section-D

46. Mudra Ltd. has been functional since 8th April, 2015. What is MUDRA ?

    (a) Micro Units Development and Refinance Agency
    (b) Micro Units Development and Refinance Agent
    (c) Micro Units Developed and Refinance Agency
    (d) Micro Units Development and Refinance Agency

47. A loan cover under kishor Category of MUDRA Yojana is

    (a) upto Rs. 50000   (b) Rs. 50000 to Rs. 2 lakh
    (c) Rs. 2 lakh to 5 lakh   (d) Rs. 50000 to 5 lakh

48. What is the maximum amount per borrower under Laghu Udami credit card.

    (a) Rs. 2 lac   (b) Rs. 3 lac
    (c) Rs. 5 lac   (d) Rs. 10 lac

49. Which of the following is not correct in the context of swairozgar credit card:

    (a) it can be issued uo to Rs. 25000.
    (b) banks have discretion to enhance the amount
    (c) the validity period is maximum 5 years.
    (d) 50% of the outstanding is to be shown as indirect agri advance.

50. Loans outstanding under General credit card (GCC) are to be classified as:

    (a) Direct agriculture   (b) Indirect agriculture
    (c) Other priority sector loans   (d) MSE loans

51. Kisan Credit Card (KCC) was prepared by NABARD on the recommendations of————committee
    (a) R.V GUPTA   (b) MALCOM
    (c) NACHET MORE   (d) NARASIMMAN

52. A holder of KCC (Kisan Credit Card) is also covered with a personal accident cover ———— amount
    (a) 50 K   (b) 20 K
    (c) 1 Lakh   (d) 2 Lakhs

53. Which of the following is/are true about Pradhan Mantri Fasal Bima Yojana(PFMBY)?
    a) It was launched on 18th February 2016 to provide insurance coverage to farmers in the event of crop failure
    b) The farmer has to pay 2% of premium for Kharif crops
    c) The farmer has to pay 1.5% of premium for rabi crops
    d) The farmer has to pay 5% of annual premium for commercial and horticulture crops
Select the correct answer from following options:
    (a) Only a, b and c   (b) Only a, b and d
    (c) Only b, c and d   (d) All are correct

54. A term loan is said to be non-performing when interest and/ or installment of principal remain overdue for a period of more than _____.

(a) 30 days
(b) 90 days
(c) 45 days
(d) 180 days

55. Any loan for short duration crops is classified as NPA when the installment of principal or interest there on remains overdue for _____ crop seasons.

(a) one
(b) four
(c) three
(d) two

56. What is the full form of ULIP.

(a) universal life and Investment Plan
(b) Unit Loan and Insurance plan
(c) Unit Linked insurance Plan
(d) Universal Loan and Investmant Plan

57. Which of the following is the only public sector company in the field of life insurance?

(a) General insurance company
(b) New India assurance company
(c) Life Insurance Corporation of India
(d) SBI lifr insurance company

58. Bancassurance is a relationship between bank and ....

(a) Education
(b) Insurance company
(c) Employee
(d) Customer

59. Choose the correct statements regarding IRDAI.
   (i) The IRDA has changed its name to IRDAI on 26 Dec.., 2014.
   (ii) IRDAI was established in the year 2004.
   (iii) The organization was set up under the guidelines of IRDA Act, 2004.

(a) only i
(b) i and ii
(c) i, ii, and iii
(d) None of these

60. The National Equity Fund Scheme (National Equity Fund Scheme) is operated by ____
(a) SIDBI
(b) RBI
(c) SBI
(d) None of the above

2/12/2023

Paper Code: 1105

Programme	Exam Code	Course Code
Bachelor of Arts	121201	BARL-1031
Bachelor of Science (Medical)	121301	BSML-1031
Bachelor of Science (Non-Medical)		BSNL-1031
Bachelor of Science (Computer Science)		BCSL-1031
Bachelor of Science (Economics)		BECL-1031
Bachelor of Commerce	121101	BCRL-1031
Bachelor of Business Administration	121701	BBRL-1031
Bachelor of Arts (Journalism and Mass Communications)	116401	BJML-1031
Bachelor of Science (Fashion Designing)	119601	BFDL-1031
Bachelor of Science (Home Science)	119701	BHSL-1031
Bachelor of Computer Applications	117901	BCAL-1031
Bachelor of Science (Information Technology)	118001	BITL-1031
Bachelor of Science (Bio-Technology)	120601	BBTL-1031

Semester-I
Course Title: Basic Punjabi
(60)

Time Allowed: 3 Hours   **Max Marks: 80**

Note:- ਕੁੱਲ ਪੰਜ ਪ੍ਰਸ਼ਨ ਕਰਨੇ ਹਨ। ਹਰ ਸੈਕਸ਼ਨ ਵਿਚੋਂ ਇਕ ਪ੍ਰਸ਼ਨ ਕਰਨਾ ਲਾਜ਼ਮੀ ਹੈ। ਪੰਜਵਾਂ ਪ੍ਰਸ਼ਨ ਕਿਸੇ ਵੀ ਸੈਕਸ਼ਨ ਵਿਚੋਂ ਕੀਤਾ ਜਾ ਸਕਦਾ ਹੈ। ਹਰੇਕ ਪ੍ਰਸ਼ਨ ਦੇ 16 ਅੰਕ ਹਨ।

ਸੈਕਸ਼ਨ A

1. ਅੱਖਰ ਕ੍ਰਮ ਬਾਰੇ ਜਾਣਕਾਰੀ ਦਿਓ।
2. ਸਿਹਾਰੀ, ਬਿਹਾਰੀ ਅਤੇ ਕੰਨਾ ਲਗਾ ਕੇ ਪੰਜ ਪੰਜ ਸ਼ਬਦ ਬਣਾਓ।

ਸੈਕਸ਼ਨ B

3. ਸਾਧਾਰਨ ਸ਼ਬਦ ਦੀ ਪਰਿਭਾਸ਼ਾ ਦੱਸ ਕੇ ਕੋਈ 12 ਸ਼ਬਦ ਬਣਾਓ ।
4. ਬੇ,ਅਣ ਅਤੇ ਉਪ ਅਗੇਤਰ ਲਗਾ ਕੇ ਪੰਜਪੰਜ ਸ਼ਬਦ ਬਣਾਓ ।

ਸੈਕਸ਼ਨ C

5. ਬਾਜਾਰ ਨਾਲ ਸੰਬੰਧਿਤ ਸ਼ਬਦਾਵਲੀ ਦੇ ਕੋਈ 15 ਸ਼ਬਦ ਬਣਾਓ।
6. ਵਪਾਰ ਨਾਲ ਸੰਬੰਧਿਤ ਸ਼ਬਦਾਵਲੀ ਦੇ 15 ਸ਼ਬਦ ਬਣਾਓ ।

ਸੈਕਸ਼ਨ D

7. ਬਾਰ੍ਹਾਂ ਮਹੀਨਿਆਂ ਦੇ ਨਾਮ ਲਿਖੋ।
8. ਹਫ਼ਤੇ ਦੇ ਦਿਨਾਂ ਦੇ ਨਾਂ ਲਿਖੋ ।

Paper Code: 1122

Programme	Exam Code	Course Code
Bachelor of Arts	121201	BARL-1175
Bachelor of Science (Economics)	121301	BECL-1175

Semester-I
Course Title: Economics (Microeconomics)
(50)

Time Allowed: 3 Hours

Max Marks: 80

Note: Candidates are required to attempt five questions in all, selecting at least one from each section. The fifth question may be attempted from any section. Each question carries equal marks.

Section-A

1. What do you mean by Price elasticity of demand? Explain the different methods of measuring price elasticity of demand?
2. State and Explain law of diminishing marginal utility.

Section-B

3. Define law of variable proportions and explain its various stages.
4. Explain the TR, MR, AR and relationship between Average revenue, Marginal revenue and elasticity of demand.

Section-C

5. Discuss equilibrium of a firm under perfect competition in short period and long period.
6. Discuss the price and output determination under monopoly in the short run and long run.

Section-D

7. Explain the Marginal Productivity theory of distribution.
8. Critically examine the Classical theory of interest.

2123

Exam Code: 121201
(40)

Paper Code: 1149

Programme: Bachelor of Arts Semester-I

Course Title: English (Elective)

Course Code: BARL-1198

Time Allowed: 3 Hours

Max Marks: 80

Section-A

I. Attempt any three literary terms from the following in approximately 100 words each.   (3x4=12)

Conflict, Symbolism, Simile, Imagery, Simile

Section-B

II. Attempt any twelve words for transcription from the following: (12x1=12)

comb, dose, ghost, castle, gross, wolf, arch, off, dark, fun, good, kill, walk, sell, queen, plastic

Section-C

III.   (A). **Explain any one in the reference of the context in approximately 300 words.**   (1x8=8)

a. Busy old fool, unruly sun,

Why dost thou thus,

Through windows, and through curtains call on us?

Must to thy motions lovers' seasons run?

Saucy pedantic wretch, go chide

Late school boys and sour prentices,

Go tell court huntsmen that the king will ride,

Call country ants to harvest offices,

Love, all alike, no season knows nor clime,

Nor hours, days, months, which are the rags of time.

Or

b.   Two roads diverged in a yellow wood.

And sorry I could not travel both

And be one traveler, long I stood

And looked down one as far as I could

To where it bent in the undergrowth;

(B) Attempt any two questions in approximately 500 words each. **(2x10=20)**

(i) Explain the conditions of the chimney sweeper described by William Blake in the poem "The Chimney Sweepers"?

(ii) How are the themes of power, possession, art and marriage presented in "My Last Dutchess"?

(iii) Write a critical appreciation of the poem, "Ode To Solitude" by Alexander Pope.

Section-D

IV. **(A) Attempt any one question in approximately 300 words.** **(1x8=8)**

1. Write brief note on Nora as a mother in A Doll's House

2. What kind of relationship do Nora and Helmer share with each other? What something Nora did that effected the relationship?

(B) Attempt any two questions in approximately 500 words each. (2x10=20)

1. How does the play A Doll's House reflect plight of women in 19th century society?

2. Compare amd contrast the characters of Christine Linde and Nora in the play A Doll's House.

3. What are the three major turning points in A Doll's House by Henrick Ibsen?

For Reappear Candidates (Old Syllabus (2020-21), (2022-23))

Exam Code: 121201   Paper Code: 9110

Programme: Bachelor of Arts (Semester-I)
Course Code: BARL-1198
Course Title: English (Elective)

Time Allowed: 3 Hours   Max. Marks: 80

Section-A

I.   Attempt any three literary terms from the following in approximately 100 words each.
                                          (3x4=12)

      Imagery, Symbolism, Conflict, Simile, Irony

II.   Attempt any twelve words for transcription from the following: (12x1=12)

       Door, across, clean, stair, east, tooth, feel, sample, yak, jump, knife, tongue, wolf, neck, gross, pair

Section-B

III.   (A). Explain any one in the reference of the context in approximately 300 words.
                                          (1x8=8)

    (a) Then be not coy, but use your time
        And while ye may, go marry;
        For having lost but once your prime,
        You may forever tarry.

              Or

        For oft, when on my couch I lie
        In vacant or in pensive mood,
        They flash upon that inward eye
        Which is the bliss of solitude;
        And then my heart with pleasure fills,
        And dances with the daffodils.

(B) Attempt any two questions in approximately 500 words each.   (2x10=20)
    1. Critically examine the exploitation of chimney sweepers in the poem "The Chimney Sweepers".
    2. In sonnet, "My Mistress Eyes Are Nothing Like the Sun", how does Shakespeare describe the lady he
       loves?
    3. How is autumn personified by John Keats in the poem "The Autumn"?

Section-C

IV. (A) Attempt any one question in approximately 300 words.   (1x8=8)
     1. Why does Nora forge her father's signature?
     2. What kind of relationship do Christine and Krogstad share with each other?

(B) Attempt any two questions in approximately 500 words each.   (2x10=20)

    1. 'A Doll's House reflect plight of women in 19th century society' Justify the statement in detail with
       references to the context.
    2. How does the character of Nora grows psychologically in *A Doll's House*
    3. What are the three major turning points in A Doll's House by Henrick Ibsen?

Exam Code: 121201   Paper Code: 1150
    (40)

Programme: Bachelor of Arts Semester-I

Course Title: Punjabi (Elective)

Course Code: BARL-1208

Time Allowed: 3 Hours   Max Marks: 80

ਨੋਟ- ਹਰ ਸੈਕਸ਼ਨ ਵਿਚੋਂ ਇਕ ਪ੍ਰਸ਼ਨ ਕਰਨਾ ਲਾਜ਼ਮੀ ਹੈ । ਪੰਜਵਾਂ ਪ੍ਰਸ਼ਨ ਕਿਸੇ ਵੀ ਸੈਕਸ਼ਨ ਵਿਚੋਂ ਕੀਤਾ ਜਾ ਸਕਦਾ ਹੈ। ਹਰੇਕ ਪ੍ਰਸ਼ਨ ਦੇ 16 ਅੰਕ ਹਨ।

ਸੈਕਸ਼ਨ -A

1. ਕਾਵਿ-ਬੰਦਾਂ ਦੀ ਪ੍ਰਸੰਗ ਸਹਿਤ ਵਿਆਖਿਆ ਕਰੋ-
   ੳ) ਕੁਝ ਰੁੱਖ ਮਿੱਠੇ, ਪੁੱਤ ਲਗਦੇ ਨੇ
   ਕੁਝ ਰੁੱਖ ਲਗਦੇ ਮਾਵਾਂ
   ਕੁਝ ਰੁੱਖ ਨੂੰਹਾਂ ਧੀਆਂ ਲਗਦੇ
   ਕੁਝ ਰੁੱਖ ਵਾਂਗ ਭਰਾਵਾਂ
   ਕੁਝ ਰੁੱਖ ਮੇਰੇ ਬਾਬੇ ਵਾਕਣ
   ਪੱਤਰ ਟਾਵਾਂ ਟਾਵਾਂ
   ਕੁਝ ਰੁੱਖ ਮੇਰੀ ਦਾਦੀ ਵਰਗੇ
   ਚੁੰਨੀ ਪਾਵਣ ਕਾਵਾਂ
   ਕੁਝ ਰੁੱਖ ਯਾਰਾਂ ਵਰਗੇ ਲਗਦੇ
   ਚੁੰਮਾਂ ਤੇ ਗਲ ਲਾਵਾਂ

ਅ) ਹਕੀਕਤ ਹੈ ਦੁਨੀਆਂ ਸਚਾਈ ਹੈ ਦੁਨੀਆਂ
ਮਨੁੱਖਾਂ ਦੀ ਮਿਹਨਤ ਤੇ ਜੀਵਨ ਦੀ ਚਾਹ ਹੈ
ਸਰੋਂ ਹੋਰ ਸੋਹਣੀ ਬਣਾਈ ਹੈ ਦੁਨੀਆਂ।
ਹਕੀਕਤ ਹੈ ਸੂਰਜ ਹਕੀਕਤ ਹੈ ਪਾਣੀ
ਹਕੀਕਤ ਹੈ ਦੁਨੀਆਂ ਸਚਾਈ ਹੈ ਦੁਨੀਆਂ

2. 'ਉਹਦੇ ਨਾ' ਕਵਿਤਾ ਦੇ ਵਿਸ਼ੇ-ਵਸਤੂ ਤੇ ਵਿਸਤਰਿਤ ਨੋਟ ਲਿਖੋ।

ਸੈਕਸ਼ਨ – B

3. ਅੰਮ੍ਰਿਤਾ ਪ੍ਰੀਤਮ ਦੁਆਰਾ ਲਿਖਤ ਨਾਵਲ 'ਪਿੰਜਰ' ਦਾ ਸਾਰ ਲਿਖੋ।

4. 'ਪਿੰਜਰ' ਨਾਵਲ ਦੀ ਪਾਤਰ ਪੂਰੋ ਦਾ ਚਰਿੱਤਰ-ਚਿਤਰਨ ਕਰੋ।

ਸੈਕਸ਼ਨ -C

5. ਅਲੰਕਾਰ ਸੰਪਰਦਾਇ ਬਾਰੇ ਵਿਸਥਾਰਪੂਰਵਕ ਜਾਣਕਾਰੀ ਦਿਓ।

6. ਕੀ ਰਸ ਨੂੰ ਕਾਵਿ ਦੀ ਆਤਮਾ ਸਵੀਕਾਰ ਕੀਤਾ ਜਾ ਸਕਦਾ। ਉੱਤਰ ਦਲੀਲਾਂ ਸਹਿਤ ਦਿਓ।

ਸੈਕਸ਼ਨ -D

7. ਅਰਥ ਵਿਗਿਆਨ ਦੀ ਪਰਿਭਾਸ਼ਾ ਦਿੰਦੇ ਹੋਏ ਸਮਾਨਾਰਥਕ ਸ਼ਬਦ ਕੀ ਹੁੰਦੇ ਹਨ । ਇਨ੍ਹਾਂ ਦੇ ਵਰਤਾਰੇ ਸੰਬੰਧੀ ਜਾਣਕਾਰੀ ਦਿਓ।

8. ਸ਼ਬਦਾਂ ਦੀ ਬਹੁਅਰਥਕਤਾ ਬਾਰੇ ਤੁਸੀਂ ਕੀ ਜਾਣਦੇ ਹੋ। ਚਰਚਾ ਕਰੋ।

For Reappear Candidates (Old Syllabus (2019-20))

Exam Code: 121201   Paper Code: 9105

Programme: Bachelor of Arts, Semester I
Course Title: English (Compulsory)
Course Code: BARL-1212

Time Allowed: 3 hrs   Max. Marks: 40

Section A

I. Attempt any ten of the following :   (1x10=10)

(A) Use the following verbs to complete the sentences. Sometimes you need the negative:

Go,	rise,	make,	flow,

1. The earth..... round the sun.
2. The sun....... in the east.
3. Bees..... honey.
4. The river Amazon......... into the Atlantic Ocean.

(B) Put in 'been' or 'gone'.

1. James is on holiday. He's...... to Italy.
2. Hello! I've just......... to the shops. I've bought lots of things.
3. Tom has....... out. He'll be back in about an hour.
4. Alice isn't here at the moment. She's ....to the shop to get a newspaper.
5. 'Are you going to the bank?' No, I've already....... to the bank'

(C) Complete the sentences using the following verbs in the correct forms:

Write,	sell,	throw,	catch,	teach,
		shut		

1. Mozart....... more than 600 pieces of music.
2. We couldn't afford to keep our car, so we.........it.
3. Joe...... the ball to Sue, who.......it.
4. 'How did you learn to drive?' 'My father .... me.
5. It was cold, so I........the window.

Section B

II. (A) Write a paragraph on one of given topics.   (1x5=5)
   a. Environmental Pollution
   b. Newspapers

(B) Attempt any five: (1x5=5)
   (a) Complete the sentences with "mustn't or don't/doesn't have to":
      1. Whatever you do, you..........touch that switch. It's very dangerous.
      2. There's a lift in the building, so we..........climb the stairs.
      3. Silvia........... get up early, but she usually does.
      4. You.........forget what I told you. It's very important.
      5. I can sleep late tomorrow morning because I.......... go to work.

(b) Put in wish (ed) or hope (d).

6. I........ you a pleasant stay here.

7. We said goodbye to each other and .... each other luck.

8. I......... you luck in your new job. I .... it works out well for you.

Section C

III. Attempt any one question. (6x1=6)

1. Write a character sketch of Madame Orielle. (*The Umbrella*)

2. Comment on the final reaction by the children to the story of Bertha. (*The Story Teller*)

IV. Attempt any two questions: (2x2=4)

1. How do father and son collect five rupees for the shroud? (*The Shroud*)

2. How many times does Iona try to tell about his son's death? (*The Lament*)

3. How did the lady know the narrator in the story "The Luncheon". (*The Luncheon*)

Section D

V. Attempt any one question: (6x1= 6)

(A) What is the popular image of a spendthrift? In what way is a spendthrift selfish? (*On Spendthrifts*)

(B) Describe briefly the author's visit to the chemist shop. (*Symptoms*)

VI. Attempt any two questions: (2x2=4)

1. What are Anne and Jack talking about? (*A Dialogue on Democracy*)

2. How Grimsdyke's life was twice influenced by the power of women? (*The Power of Women*)

3. What does Declaration say about the rights of children and about education?
   (*Universal Declaration of Human Rights*)

Exam Code: 121201 (B.A), 121101 (B.Com.)   Paper Code: 9106

Programme: Bachelor of Arts, Bachelor of Commerce, Semester I
Course Title: English (Compulsory)
Course Code: BARL-1212, BCRL-1212

Time Allowed: 3 hrs   Max. Marks: 40

Section A

Q. 1. Attempt any ten out of fifteen: (1x10=10)

Put the verb into correct form, present perfect or past simple:

1. I'm tired. _____ (I/not/sleep) well last night.
2. _____ (you/go) to the cinema last night?
3. _____ (you/see) Lisa recently?
4. I don't know Karen's husband. _____ (I/never/meet) him.

Put in when or if:

5. Be careful. You'll hurt yourself _____ you fall.
6. Don't worry _____ I'm late tonight.

Put in must or can't:

7. You got here quickly. You _____ have walked very fast.
8. You have been travelling all day. You _____ be tired.
9. That restaurant _____ be very good. Its always empty.
10. Bill and Sue always stay at luxury hotels, so they _____ be short of money.

Change the present simple into past simple:

11. I go to school daily.
12. I eat my breakfast.

Write the following sentences in a different way using might:

13. Perhaps Helen is busy.
14. Perhaps she was ill yesterday.
15. Perhaps Helen is in her office.

SECTION B

Q. 2. Write a paragraph on one of the following topics in about 150 words: (1x5=5)

     I. Life in a village
     II. Problem of unemployment

Q. 3. Translate the following paragraph in English: (1x5=5)

संघर्ष के मार्ग में अकेला ही चलना पड़ता है। कोई बाहरी शक्ति आपकी सहायता नहीं करती है। परिश्रम, दृढ़ इच्छा शक्ति व लगन आदि मानवीय गुण व्यक्ति को संघर्ष करने और जीवन में सफलता प्राप्त करने का मार्ग प्रशस्त करते हैं। दो महत्त्वपूर्ण तथ्य स्मरणीय है – प्रत्येक समस्या अपने साथ संघर्ष लेकर आती है। प्रत्येक संघर्ष के गर्भ में विजय निहित रहती है। एक अध्यापक छोड़ने वाले अपने छात्रों को यह संदेश दिया था – तुम्हें जीवन में सफल होने के लिए समस्याओं से संघर्ष करने को अभ्यास करना होगा। हम कोई भी कार्य करें, सर्वोच्च शिखर पर पहुँचने का संकल्प लेकर चलें। सफलता हमें कभी निराश नहीं करेगी। समस्त ग्रंथों और महापुरुषों के अनुभवों को निष्कर्ष यह है कि संघर्ष से डरना अथवा उससे विमुख होना अहितकर है, मानव धर्म के प्रतिकूल है और अपने विकास को अनावश्यक रूप से बाधित करना है। आप जागिए, उठिए दृढ़-संकल्प और उत्साह एवं साहस के साथ संघर्ष रूपी विजय रथ पर चढ़िए और अपने जीवन के विकास की बाधाओं रूपी शत्रुओं पर विजय प्राप्त कीजिए।

IOr

ਸੰਘਰਸ਼ ਦਾ ਰਾਹ ਇਕੱਲਿਆਂ ਹੀ ਤੁਰਨਾ ਪੈਂਦਾ ਹੈ। ਕੋਈ ਬਾਹਰੀ ਤਾਕਤ ਤੁਹਾਡੀ ਮਦਦ ਨਹੀਂ ਕਰਦੀ। ਸਖ਼ਤ ਮਿਹਨਤ, ਦ੍ਰਿੜ ਇੱਛਾ ਸ਼ਕਤੀ ਅਤੇ ਸਮਰਪਣ ਆਦਿ ਮਨੁੱਖੀ ਗੁਣ ਮਨੁੱਖ ਨੂੰ ਜੀਵਨ ਵਿੱਚ ਸੰਘਰਸ਼ ਕਰਨ ਅਤੇ ਸਫਲਤਾ ਪ੍ਰਾਪਤ ਕਰਨ ਦਾ ਰਾਹ ਪੱਧਰਾ ਕਰਦੇ ਹਨ। ਯਾਦ ਰੱਖਣ ਲਈ ਦੋ ਮਹੱਤਵਪੂਰਨ ਤੱਥ - ਹਰ ਸਮੱਸਿਆ ਆਪਣੇ ਨਾਲ ਸੰਘਰਸ਼ ਲੈ ਕੇ ਆਉਂਦੀ ਹੈ। ਹਰ ਸੰਘਰਸ਼ ਦੇ ਕੇਂਦਰ ਵਿੱਚ ਜਿੱਤ ਹੁੰਦੀ ਹੈ। ਇੰਝ ਅਧਿਆਪਕ ਨੇ ਆਪਣੇ ਛੱਡਣ ਵਾਲੇ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਇਹ ਸੰਦੇਸ਼ ਦਿੱਤਾ - ਤੁਹਾਨੂੰ ਜ਼ਿੰਦਗੀ ਵਿੱਚ ਕਾਮਯਾਬ ਹੋਣ ਲਈ ਸਮੱਸਿਆਵਾਂ ਨਾਲ ਲੜਨ ਦਾ ਅਭਿਆਸ ਕਰਨਾ ਪਵੇਗਾ। ਅਸੀਂ ਜੋ ਵੀ ਕੰਮ ਕਰਦੇ ਹਾਂ, ਸਾਨੂੰ ਉੱਚੇ ਸਿਖਰ 'ਤੇ ਪਹੁੰਚਣ ਦੇ ਸੰਕਲਪ ਨਾਲ ਅੱਗੇ ਵਧਣਾ ਚਾਹੀਦਾ ਹੈ। ਸਫਲਤਾ ਸਾਨੂੰ ਕਦੇ ਨਿਰਾਸ਼ ਨਹੀਂ ਕਰੇਗੀ। ਸਾਰੇ ਧਰਮ-ਗ੍ਰੰਥਾਂ ਅਤੇ ਮਹਾਪੁਰਖਾਂ ਦੇ ਅਨੁਭਵਾਂ ਤੋਂ ਸਿੱਟਾ ਇਹ ਨਿਕਲਦਾ ਹੈ ਕਿ ਟਕਰਾਅ ਤੋਂ ਡਰਨਾ ਜਾਂ ਇਸ ਤੋਂ ਮੂੰਹ ਮੋੜਨਾ ਹਾਨੀਕਾਰਕ ਹੈ, ਮਨੁੱਖੀ ਧਰਮ ਦੇ ਉਲਟ ਹੈ ਅਤੇ ਬੇਲੋੜਾ ਸਾਡੇ ਵਿਕਾਸ ਵਿੱਚ ਰੁਕਾਵਟ ਹੈ। ਤੁਸੀਂ ਜਾਗੋ, ਉੱਠੋ, ਦ੍ਰਿੜ ਇਰਾਦੇ, ਉਤਸ਼ਾਹ ਅਤੇ ਹੌਂਸਲੇ ਨਾਲ ਸੰਘਰਸ਼ ਦੇ ਜਿੱਤ ਰੱਥ 'ਤੇ ਚੜ੍ਹੋ ਅਤੇ ਆਪਣੇ ਜੀਵਨ ਦੇ ਵਿਕਾਸ ਵਿੱਚ ਰੁਕਾਵਟਾਂ ਦੇ ਰੂਪ ਵਿੱਚ ਦੁਸ਼ਮਣਾਂ ਨੂੰ ਜਿੱਤ ਲਿਓ।

SECTION C

Q. 4. Attempt any one in about 300 words: (1x6=6)

    a) Whom does Iona tell the story of his son's death and why? (The Lament)
    b) What story does Bachelor tell the children? (The Story Teller)

Q. 5. Attempt any two in about 50 words each: (2x2=4)

    a) Write a character sketch of Madame Orielle. (The Umbrella)
    b) Write a brief note on the narrator's experience in the "The Luncheon". (The Luncheon)
    c) What is the reputation of Gheesu and Madhav in the village? (The Shroud)

SECTION D

Q. 6. Attempt any one in about 300 words: (1x6=6)

    a) How Grimsdyke's life was deeply influenced by the power of women? (The Power of Women)
    b) Discuss the ideas about Democracy in 'A Dialogue on Democracy'.

Q. 7. Attempt any two in about 50 words each: (2x2=4)

    a) Why is a spendthrift likely to have too many friends? (On Spendthrifts)
    b) What does the declaration say about marriage and family? (Universal Declaration of Human Rights)
    c) How could the author be useful from the medical point of view? (Symptoms)

Paper Code: 1113

Programme	Exam Code	Course Code
Bachelor of Arts	121201	BARL-1212
Bachelor of Science (Medical)	121301	BSML-1213
Bachelor of Science (Non-Medical)		BSNL-1212
Bachelor of Science (Computer Science Economics)		BCSL-1212
Bachelor of Science (Economics)		BECL-1212
Bachelor of Commerce	121101	BCRL-1212
Bachelor of Business Administration	121701	BBRL-1212

Semester-I
Course Title: English (Compulsory)
(300)

Time Allowed: 3 Hours   **Max Marks: 80**

SECTION A

I Attempt any ten out of fifteen.

(10 x 2=20)

Put the verb into the correct form.

1. 'What_____ (you/do)?' 'I'm an electrician'.

2. David isn't very fit. He_____ (not/do) any sport.

Complete the sentences using the following verbs in the correct form:

3. 'How did you learn to drive?' 'My father_____ (teach) me'.

4. We couldn't afford to keep our car, so we_____ (sell) it.

Put in must or can't

5. The restaurant _____ is very good. It's always full of people.

6. You got here very quickly. You _____ have walked very fast.

7. Congratulations on passing your exam. You_____ be very pleased.

Complete the sentences using might+ a suitable verb from the following:

(Bite, Wake)

8. Don't make too much noise. You_____ the baby.

9. Be careful of that dog. It _____ you.

Write for or since.

10. Sarah has lived in Paris_____ 1995.

11. Paul has lived in Brazil _____ ten years.

Complete the sentences. Use wouldn't + a suitable verb.

12. I asked Amanda what has happened but she _____ me.

13. Paul was very angry about what I'd said and _____ to me for two weeks.

Put the verb into present continuous (I am -ing) or present perfect continuous (I have been -ing)

14. . _____ (Maria/learn) English for two years.

15. Sarah is very tired _____ (she/work) very hard recently.

Section -B

II Write a paragraph on one of the following topics.

(1x10 =10)

a. Value of books

b. Evil of Dowry System

III Translate the following paragraph into English

(1*10-10))

सबसे ज्यादा कीमती समय होता है। सभी वस्तुओं में सभी चीजों में धन दौलत से भी महंगा समय होता है, क्योंकि एक बार गया हुआ समय कभी लौटकर नहीं आता। धन दौलत वैसे कुछ भी हो वह लौट कर जरूर आ जाता है, लेकिन समय लौट कर कभी नहीं आता। इसीलिए समय सबसे कीमती होता है। इस दुनिया में सब कुछ समय पर ही

निर्भर करता है। एक बार गया हुआ समय वापस नहीं आता। समय को एक बार बर्बाद कर देते हैं, तो इससे बुरी चीज कोई नहीं मानी जाती है, क्योंकि इससे सब कुछ नष्ट हो जाता है। समय पर ही सब कुछ निर्भर करता है। समय के अनुसार ही हमें सब चीजें मिलती हैं। हमारा भविष्य भी समय पर ही निर्भर करता है। कुछ लोगों का मानना है, कि धन दौलत सबसे कीमती है, परंतु सबसे महंगी दौलत समय ही है। समय का हमें हमेशा उपयोग करना चाहिए। हम समय को कमी भी खरीद नहीं सकते हैं और ना ही इसे बेच सकते हैं।

ਸਮਾਂ ਸਭ ਤੋਂ ਕੀਮਤੀ ਹੈ। ਹਰ ਚੀਜ਼ ਵਿੱਚ, ਸਮਾਂ ਦੌਲਤ ਨਾਲੋਂ ਵੱਧ ਕੀਮਤੀ ਹੈ, ਕਿਉਂਕਿ ਇੱਕ ਵਾਰ ਗਿਆ ਸਮਾਂ ਕਦੇ ਵਾਪਸ ਨਹੀਂ ਆ ਸਕਦਾ। ਧਨ ਭਾਵੇਂ ਕੋਈ ਵੀ ਹੋਵੇ, ਵਾਪਿਸ ਜ਼ਰੂਰ ਆਉਂਦਾ ਹੈ, ਪਰ ਸਮਾਂ ਕਦੇ ਵਾਪਸ ਨਹੀਂ ਆਉਂਦਾ। ਇਸ ਲਈ ਸਮਾਂ ਸਭ ਤੋਂ ਕੀਮਤੀ ਹੈ। ਇਸ ਸੰਸਾਰ ਵਿੱਚ ਹਰ ਚੀਜ਼ ਸਮੇਂ 'ਤੇ ਨਿਰਭਰ ਕਰਦੀ ਹੈ। ਇੱਕ ਵਾਰ ਗਵਾਚਿਆ ਸਮਾਂ ਵਾਪਿਸ ਨਹੀਂ ਆਉਂਦਾ, ਇੱਕ ਵਾਰ ਸਮਾਂ ਬਰਬਾਦ ਹੋ ਜਾਵੇ ਤਾਂ ਇਸ ਤੋਂ ਮਾੜੀ ਗੱਲ ਕੋਈ ਨਹੀਂ ਕਿਉਂਕਿ ਇਹ ਸਭ ਕੁਝ ਤਬਾਹ ਕਰ ਦਿੰਦਾ ਹੈ। ਸਭ ਕੁਝ ਸਮੇਂ 'ਤੇ ਨਿਰਭਰ ਕਰਦਾ ਹੈ। ਸਾਨੂੰ ਸਮੇਂ ਅਨੁਸਾਰ ਸਭ ਕੁਝ ਮਿਲਦਾ ਹੈ। ਸਾਡਾ ਭਵਿੱਖ ਵੀ ਸਮੇਂ 'ਤੇ ਨਿਰਭਰ ਕਰਦਾ ਹੈ। ਕੁਝ ਲੋਕ ਮੰਨਦੇ ਹਨ ਕਿ ਪੈਸਾ ਸਭ ਤੋਂ ਕੀਮਤੀ ਸੰਪਤੀ ਹੈ, ਪਰ ਸਭ ਤੋਂ ਮਹਿੰਗੀ ਸੰਪਤੀ ਸਮਾਂ ਹੈ। ਸਾਨੂੰ ਹਮੇਸ਼ਾ

ਸਮੇਂ ਦੀ ਵਰਤੋਂ ਕਰਨੀ ਚਾਹੀਦੀ ਹੈ।ਅਸੀਂ ਨਾ ਕਦੇ ਸਮਾਂ ਖਰੀਦ ਸਕਦੇ ਹਾਂ ਅਤੇ ਨਾ ਹੀ ਇਸਨੂੰ ਵੇਚ ਸਕਦੇ ਹਾਂ।

Section-C

IV Attempt any one question in about 400 words.

(1x10=10)

a) Write a character-sketch of Madame Oreille. (The Umbrella)

b) Comment on the attitude of different people to Iona's attempt to tell them his story of grief.(The Lament)

V Attempt any two questions in about 150 words each.

(2x5=10)

a) How did the lady know the narrator in the story "The Luncheon"? (the Luncheon)

b) What is the reputation of Gheesu and Madhav in the village? (The Shroud)

c) How does the aunt react to the story and what reply does the bachelor give? (The Story Teller)

Section – D

VI Attempt any one question in about 400 words.

(1x10=10)

a) How was Grimsdyke's life influenced twice by the power of women? (The Power of Women)

b) What does the Declaration say about the rights of children and education? (Universal Declaration of Human Rights)

VII Attempt any two questions in about 150 words.

(2x5=10)

a) Who is Lady Ida Sitwell? Why is she imprisoned? Why, according to the author, does she need imprisonment? (On Spendthrifts)

b) What does 'Democracy' generally mean? How does it vary from country to country? (A Dialogue on Democracy)

c) What did the doctor write in his prescription? Did the narrator follow the doctor's advice? (Symptoms)

Exam Code: 121201 (B.A), 121101 (B.Com.)   **Paper Code: 9106**

Programme: Bachelor of Arts, Bachelor of Commerce, Semester I
Course Title: English (Compulsory)
Course Code: BARL-1212, BCRL-1212

Time Allowed: 3 hrs   **Max. Marks: 40**

Section A

Q. 1. Attempt any ten out of fifteen: **(1x10=10)**

Put the verb into correct form, present perfect or past simple:

1. I'm tired. _____ (I/not/sleep) well last night.

2. _____ (you/go) to the cinema last night?

3. _____ (you/see) Lisa recently?

4. I don't know Karen's husband. _____ (I/never/meet) him.

Put in when or if:

5. Be careful. You'll hurt yourself _____ you fall.

6. Don't worry _____ I'm late tonight.

Put in must or can't:

7. You got here quickly. You _____ have walked very fast.

8. You have been travelling all day. You _____ be tired.

9. That restaurant _____ be very good. Its always empty.

10. Bill and Sue always stay at luxury hotels, so they _____ be short of money.

Change the present simple into past simple:

11. I go to school daily.

12. I eat my breakfast.

Write the following sentences in a different way using might:

13. Perhaps Helen is busy.

14. Perhaps she was ill yesterday.

15. Perhaps Helen is in her office.

SECTION B

Q. 2. Write a paragraph on one of the following topics in about 150 words: **(1x5=5)**
    I. Life in a village
    II. Problem of unemployment

Q. 3. Translate the following paragraph in English: (1x5=5)

संघर्ष के मार्ग में अकेला ही चलना पड़ता है। कोई बाहरी शक्ति आपकी सहायता नहीं करती है। परिश्रम, दृढ़ इच्छा शक्ति व लगन आदि मानवीय गुण व्यक्ति को संघर्ष करने और जीवन में सफलता प्राप्त करने का मार्ग प्रशस्त करते हैं। दो महत्त्वपूर्ण तथ्य स्मरणीय है – प्रत्येक समस्या अपने साथ संघर्ष लेकर आती है। प्रत्येक संघर्ष के गर्भ में विजय निहित रहती है। एक अध्यापक छोड़ने वाले अपने छात्रों को यह संदेश दिया था – तुम्हें जीवन में सफल होने के लिए समस्याओं से संघर्ष करने को अभ्यास करना होगा। हम कोई भी कार्य करें, सर्वोच्च शिखर पर पहुँचने का संकल्प लेकर चलें। सफलता हमें कभी निराश नहीं करेगी। समस्त ग्रंथों और महापुरुषों के अनुभवों को निष्कर्ष यह है कि संघर्ष से डरना अथवा उससे विमुख होना अहितकर है, मानव धर्म के प्रतिकूल है और अपने विकास को अनावश्यक रूप से बाधित करना है। आप जागिए, उठिए दृढ़-संकल्प और उल्लास एवं साहस के साथ संघर्ष रूपी विजय रथ पर चढ़िए और अपने जीवन के विकास की बाधाओं रूपी शत्रुओं पर विजय प्राप्त कीजिए ।

1Or

ਸੰਘਰਸ਼ ਦਾ ਰਾਹ ਇਕੱਲਿਆ ਹੀ ਤੁਰਨਾ ਪੈਂਦਾ ਹੈ। ਕੋਈ ਬਾਹਰੀ ਤਾਕਤ ਤੁਹਾਡੀ ਮਦਦ ਨਹੀਂ ਕਰਦੀ। ਸਖ਼ਤ ਮਿਹਨਤ, ਦ੍ਰਿੜ੍ਹ ਇੱਛਾ ਸ਼ਕਤੀ ਅਤੇ ਸਮਰਪਣ ਆਦਿ ਮਨੁੱਖੀ ਗੁਣ ਮਨੁੱਖ ਨੂੰ ਜੀਵਨ ਵਿੱਚ ਸੰਘਰਸ਼ ਕਰਨ ਅਤੇ ਸਫ਼ਲਤਾ ਪ੍ਰਾਪਤ ਕਰਨ ਦਾ ਰਾਹ ਪੱਧਰਾ ਕਰਦੇ ਹਨ। ਯਾਦ ਰੱਖਣ ਲਈ ਦੋ ਮਹੱਤਵਪੂਰਨ ਤੱਥ - ਹਰ ਸਮੱਸਿਆ ਆਪਣੇ ਨਾਲ ਸੰਘਰਸ਼ ਲੈ ਕੇ ਆਉਂਦੀ ਹੈ। ਹਰ ਸੰਘਰਸ਼ ਦੇ ਕੇਂਦਰ ਵਿੱਚ ਜਿੱਤ ਹੁੰਦੀ ਹੈ। ਇੱਕ ਅਧਿਆਪਕ ਨੇ ਆਪਣੇ ਛੱਡਣ ਵਾਲੇ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਇਹ ਸੰਦੇਸ਼ ਦਿੱਤਾ - ਤੁਹਾਨੂੰ ਜ਼ਿੰਦਗੀ ਵਿੱਚ ਕਾਮਯਾਬ ਹੋਣ ਲਈ ਸਮੱਸਿਆਵਾਂ ਨਾਲ ਲੜਨ ਦਾ ਅਭਿਆਸ ਕਰਨਾ ਪਵੇਗਾ। ਅਸੀਂ ਜੋ ਵੀ ਕੰਮ ਕਰਦੇ ਹਾਂ, ਸਾਨੂੰ ਉੱਚੇ ਸਿਖਰ 'ਤੇ ਪਹੁੰਚਣ ਦੇ ਸੰਕਲਪ ਨਾਲ ਅੱਗੇ ਵਧਣਾ ਚਾਹੀਦਾ ਹੈ। ਸਫ਼ਲਤਾ ਸਾਨੂੰ ਕਦੇ ਨਿਰਾਸ ਨਹੀਂ ਕਰੇਗੀ। ਸਾਰੇ ਪਰਮ-ਗ੍ਰੰਥਾਂ ਅਤੇ ਮਹਾਪੁਰਖਾਂ ਦੇ ਅਨੁਭਵਾਂ ਤੋਂ ਸਿੱਟਾ ਇਹ ਨਿਕਲਦਾ ਹੈ ਕਿ ਟਕਰਾਅ ਤੋਂ ਡਰਨਾ ਜਾਂ ਇਸ ਤੋਂ ਮੂੰਹ ਮੋੜਨਾ ਹਾਨੀਕਾਰਕ ਹੈ, ਮਨੁੱਖੀ ਧਰਮ ਦੇ ਉਲਟ ਹੈ ਅਤੇ ਬੇਲੋੜਾ ਸਾਡੇ ਵਿਕਾਸ ਵਿੱਚ ਰੁਕਾਵਟ ਹੈ। ਤੁਸੀਂ ਜਾਗੋ, ਉੱਠੋ, ਦ੍ਰਿੜ ਇਰਾਦੇ, ਉਤਸ਼ਾਹ ਅਤੇ ਹੌਂਸਲੇ ਨਾਲ ਸੰਘਰਸ਼ ਦੇ ਜਿੱਤ ਰੱਥ 'ਤੇ ਚੜ੍ਹੋ ਅਤੇ ਆਪਣੇ ਜੀਵਨ ਦੇ ਵਿਕਾਸ ਵਿੱਚ ਰੁਕਾਵਟਾਂ ਦੇ ਰੂਪ ਵਿੱਚ ਦੁਸ਼ਮਣਾਂ ਨੂੰ ਜਿੱਤ ਦਿਓ।

SECTION C

Q. 4. Attempt any one in about 300 words: (1x6=6)

a) Whom does Iona tell the story of his son's death and why? (The Lament)

b) What story does Bachelor tell the children? (The Story Teller)

Q. 5. Attempt any two in about 50 words each: (2x2=4)

a) Write a character sketch of Madame Orielle. (The Umbrella)

b) Write a brief note on the narrator's experience in the "The Luncheon". (The Luncheon)

c) What is the reputation of Gheesu and Madhav in the village? (The Shroud)

SECTION D

Q. 6. Attempt any one in about 300 words: (1x6=6)

a) How Grimsdyke's life was deeply influenced by the power of women? (The Power of Women)

b) Discuss the ideas about Democracy in 'A Dialogue on Democracy'.

Q. 7. Attempt any two in about 50 words each: (2x2=4)

a) Why is a spendthrift likely to have too many friends? (On Spendthrifts)

b) What does the declaration say about marriage and family? (Universal Declaration of Human Rights)

c) How could the author be useful from the medical point of view? (Symptoms)

For Reappear Candidates (Old Syllabus (2019-20))

Exam Code: 121201   Paper Code: 9112

Bachelor of Arts (Semester-I)

Course Title- Hindi (Elective) (Madhyakaleen Hindi Kavya, Itihaas Evam Vyakaran)

Course Code: BARL-1268

समय : 3 घन्टे   कुल अंक :60

नोट : यह प्रश्नपत्र चार भागों में विभाजित है । पहला भाग सप्रसंग व्याख्या का है ,जिसमें छ: पध्यांशों में से विद्यार्थी को कोई चार व्याख्याएं करनी हैं प्रश्नपत्र की इकाई दो,तीन और चार में दिए गए प्रश्नों में से विद्यार्थियों को एक –एक प्रश्न करना होगा । पांचवां प्रश्न विद्यार्थी किसी भी भाग में से कर सकता है । सभी प्रश्न 16-16 अंकों के हैं ।

भाग –क

1. निम्नलिखित पध्यांशों में से किन्हीं चार की सप्रसंग व्याख्या करें ।

क) कबीर तन पंषी भया , जहाँ मन तहां उड़ी जाई ।
    जो जैसे संगति करै, सो तैसे फल खायी ॥

ख) चरण कमल बन्दौं हरि-राइ ।
    जाकी कृपा पंगु गिरी लांघे ,अंधे को सब कछु दरसाइ।
    बहिरो सुने ,गूंग पुनि बोलै, रैंक चले सिर छत्र धराई।
    सूरदास स्वामी करुनामय ,बार- बार बन्दौं तिही पाई ।

ग) पवणु गुरु पाणी पिता माता धरति महतु ।
    दिवस राति दुई दाई दाइआ खेलै सगल जगतु ॥
    चंगिआईआ बुरिआईआ वाचै धरमु ह्दूरि ।
    करमी आपो आपणी के नेड़े के दूरि ॥
    जिनी नामु धिआइआ गए मसकति घालि ।
    नानक ते मुख उजले केती छूटी नालि ॥

घ) मेरी मन अनत कहाँ सुख पावै ।
    जैसे उड़ि जहाज को पच्छीं, फिरि जहाज पै आवै ।
    कमल- नैन कौं छांडि महातम और दैव कौं ध्यावै ।
    परम गंग कौं छांडि पियासौ, दुरमति कूप खनावै ।
    जिहिं मधुकर अंबुज-रस चाख्यौ, क्यों करील-फल भावै ।
    सूरदास प्रभु कामधेनु तजि, छेरी कौन दुहावै

ड) जेके प्रिय न राम बैदेही ।

तजिये ताहि कोटि वैरी सम जथपि परमसनेही ।।

तज्यो पिता प्रह्लाद विभीषन बंधु भरत महतारी ।

बलि गुरु तज्यो कंत ब्रज वनितनि भये जग मंगलकारी ।

नाते नेह रामहि के मनियत सुहृद सुसेव्य जहाँ लौं ।

अंजनु कहा आँखि जेहि फूटै बहुत हौं कहीं कहाँ लौं ।

तुलसी सो सब भाँति परमहित पूज्य प्रान ते प्यारो ।

जाते होइ सनेह राम ते इतनोइ मतो हमारो ।

च) बतरस-लालच लाल की मुरली धरी लुकाइ ।

     साँह करें भौंहनु हंसैं, दैन कहै नटि जाय ।।

भाग-ख

2. कबीरदास जी का साहित्यिक परिचय दें ।

3. सूरदास के काव्य में भक्ति भावना स्पष्ट करें ।

भाग –ग

4. दोहा तथा चौपाई छंद को सोदाहरण स्पष्ट करें ।

5. रस की परिभाषा बताते हुए उसके प्रकार बताएं ।

भाग-घ

6. आदिकाल का नामकरण स्पष्ट करें ।

7. संत काव्यधारा की विशेषताएं बताएं ।

16x5=80

For Reappear Candidates (Old Syllabus (2022-23))

Exam Code: 121201   Paper Code: 9109

Programme: Bachelor of Arts (Semester: I)
Course Code: BARL-1273
Course Title: History (History of India upto C.1000)

Time Allowed: 3 Hours   Theory: 80

NOTE: Attempt three questions, selecting one question from first three Units in about 1200 words. Attempt both questions from Unit IV. Each question will carry 16 marks.

लगभग 1200 शब्दों में पहली तीन इकाइयों में से एक प्रश्न का चयन करते हुए तीन प्रश्नों का उत्तर लिखो। इकाई IV से दोनों प्रश्नों को हल करें।प्रत्येक प्रश्न 16 अंक का होगा।

ਪਹਿਲੇ ਤਿੰਨ ਯੂਨਿਟਾਂ ਵਿੱਚੋਂ ਇੱਕ ਪ੍ਰਸ਼ਨ ਦੀ ਚੋਣ ਕਰਦੇ ਹੋਏ ਲਗਭਗ 1200 ਸ਼ਬਦਾਂ ਵਿੱਚ ਤਿੰਨ ਪ੍ਰਸ਼ਨਾਂ ਦੇ ਉੱਤਰ ਦਿਓ। ਯੂਨਿਟ IV ਤੋਂ ਦੋਵਾਂ ਪ੍ਰਸ਼ਨ ਲਾਜ਼ਮੀ ਹਨ, ਹਰਪ੍ਰਸ਼ਨ 16 ਅੰਕਾਂ ਦਾ ਹੋਵੇਗਾ।

UNIT I

1. Define the term Ancient India and discuss the main literacy sources of Ancient Indian History
2. Explain the social, economic and religious life of Rigvedic Aryans.

UNIT-II

3. Write the principles of the teachings of Lord Mahavira.
4. Give the explanation of Ashoka's expansion of administration by Kalinga war. and its effects?

UNIT-III

5. Give the definition of Gandhara School of Art ant its features
6. Give an account of the salient features of administration of Cholas

UNIT IV

7. (Compulsory Unit, Attempt Both Questions) Answer any Eight questions. Each question carries 2 marks
   1. What is meant by Archaeology?
   2. Name the four places in India, related to the Indus Valley Civilization.
   3. What does the word 'Veda' means?
   4. What are the name of Tri- Pitak?
   5. What type of stories are found in Jataka books?
   6. Write the three periods of Indian History .
   7. Which four metals were known to the Indus people?
   8. What is meant by Brahman Granth?
   9. What is meant by Mohenjodaro?
   10. What wee the main crops of Harappan people?
   11. Name the two Chinese travellers who came to India during Ancient period?
   12. The life of which ruler is described in Prithvi Raj Raso?   (8X2=16)

8. Locate any four places on the political map of India and explain their importance in 5 lines (Each correct answer with explanation will carry 4 marks)   (16 Marks)
Lothal, Taxila, Magadha, Patilaputra, Kalibangan, Rajgir, Sanghol, Kanauj, Gandhara, and Thanesar

Hindi Version

यूनिट –I

1. प्राचीन भारत शब्द को परिभाषित करें तथा प्राचीन भारतीय इतिहास के प्रमुख साक्षरता स्रोतों की चर्चा करें
2. ऋग्वैदिक आर्यों के सामाजिक, आर्थिक और धार्मिक जीवन की व्याख्या करें।

यूनिट-II

3. भगवान महावीर की शिक्षाओं के सिद्धांत लिखिए।
4. कलिंग युद्ध द्वारा अशोक के प्रशासन के विस्तार का स्पष्टीकरण दीजिए। और इसके प्रभाव?

यूनिट-III

5. गांधार कला विद्यालय की परिभाषा और इसकी विशेषताएं बताइए
6. चोलों के प्रशासन की प्रमुख विशेषताओं का विवरण दीजिए

यूनिट-IV

7 (अनिवार्य इकाई / दोनों प्रश्न हल करें) किन्हीं आठ प्रश्नों के उत्तर दें प्रत्येक प्रश्न 2 अंक का होगा   (8X2=16)
1. पुरातत्व से क्या तात्पर्य है?
2. सिंधु घाटी सभ्यता से संबंधित भारत के चार स्थानों के नाम बताइए।

5. जातक ग्रंथों में किस प्रकार की कहानियाँ मिलती हैं?

6. भारतीय इतिहास के तीन कालखंड लिखिए।

7. सिंधु लोग किन चार धातुओं के बारे में जानते थे?

8. ब्राह्मण ग्रंथ से क्या तात्पर्य है?

9. मोहनजोदड़ो से क्या तात्पर्य है?

10. हड़प्पा के लोगों की मुख्य फसलें कौन सी थीं?

11. प्राचीन काल में भारत आए दो चीनी यात्रियों के नाम बताएं?

12. पृथ्वी राज रासो में किस शासक के जीवन का वर्णन है

8. भारत के राजनीतिक मानचित्र पर किन्हीं चार स्थानों का पता लगाएँ और 5 पंक्तियों में उनके महत्व की व्याख्या करें (स्पष्टीकरण के साथ प्रत्येक सही उत्तर में 4 अंक होंगे)

लोथल, तक्षशिला, मगध, पाटिलपुत्र, कालीबंगा, राजगीर, संघोल, थानेसर, कनौज, गांधार   (16 Marks)

Punjabi Version

ਯੂਨਿਟ –I

1. ਪ੍ਰਾਚੀਨ ਭਾਰਤ ਸ਼ਬਦ ਨੂੰ ਪਰਿਭਾਸ਼ਿਤ ਕਰੋ ਅਤੇ ਪ੍ਰਾਚੀਨ ਭਾਰਤੀ ਇਤਿਹਾਸ ਦੇ ਮੁੱਖ ਸਾਖਰਤਾ ਸਰੋਤਾਂ ਦੀ ਚਰਚਾ ਕਰੋ

2. ਰਿਗਵੈਦਿਕ ਆਰੀਅਨਾਂ ਦੇ ਸਮਾਜਿਕ, ਆਰਥਿਕ ਅਤੇ ਧਾਰਮਿਕ ਜੀਵਨ ਦੀ ਵਿਆਖਿਆ ਕਰੋ।

ਯੂਨਿਟ –II

3. ਭਗਵਾਨ ਮਹਾਵੀਰ ਦੀਆਂ ਸਿੱਖਿਆਵਾਂ ਦੇ ਸਿਧਾਂਤ ਲਿਖੋ।

4. ਕਲਿੰਗ ਯੁੱਧ ਦੁਆਰਾ ਅਸ਼ੋਕ ਦੁਆਰਾ ਪ੍ਰਸ਼ਾਸਨ ਦੇ ਵਿਸਥਾਰ ਦੀ ਵਿਆਖਿਆ ਦਿਓ। ਅਤੇ ਇਸ ਦੇ ਪ੍ਰਭਾਵ?

ਯੂਨਿਟ –III

5. ਗੰਧਾਰ ਸਕੂਲ ਆਫ਼ ਆਰਟ ਦੀ ਪਰਿਭਾਸ਼ਾ ਦਿਓ, ਇਸ ਦੀਆਂ ਵਿਸ਼ੇਸ਼ਤਾਵਾਂ ਦੱਸੋ

6. ਚੋਲਾਂ ਦੇ ਪ੍ਰਸ਼ਾਸਨ ਦੀਆਂ ਮੁੱਖ ਵਿਸ਼ੇਸ਼ਤਾਵਾਂ ਦਾ ਵੇਰਵਾ ਦਿਓ

ਯੂਨਿਟ -IV

7. (ਲਾਜ਼ਮੀ ਯੂਨਿਟ / ਦੋਵੇਂ ਸਵਾਲਾਂ ਦੀ ਕੋਸ਼ਿਸ਼) ਕਿਸੇ ਵੀ ਅੱਠ ਸਵਾਲਾਂ ਦੇ ਜਵਾਬ ਦਿਓ ਹਰੇਕ ਸਵਾਲ ਵਿੱਚ 2 ਅੰਕ ਹੋਣਗੇ   (8X2=16)

1. ਪੁਰਾਤੱਤਵ ਵਿਗਿਆਨ ਤੋਂ ਕੀ ਭਾਵ ਹੈ?

2. ਸਿੰਧੂ ਘਾਟੀ ਸਭਿਅਤਾ ਨਾਲ ਸਬੰਧਤ ਭਾਰਤ ਦੇ ਚਾਰ ਸਥਾਨਾਂ ਦੇ ਨਾਮ ਦੱਸੋ।

3. 'ਵੇਦਾ' ਸ਼ਬਦ ਦਾ ਕੀ ਅਰਥ ਹੈ?

4. ਤ੍ਰਿ-ਪਿਟਕ ਦੇ ਨਾਮ ਕੀ ਹਨ?

5. ਜਾਤਕ ਪੁਸਤਕਾਂ ਵਿੱਚ ਕਿਸ ਕਿਸਮ ਦੀਆਂ ਕਹਾਣੀਆਂ ਮਿਲਦੀਆਂ ਹਨ?

6. ਭਾਰਤੀ ਇਤਿਹਾਸ ਦੇ ਤਿੰਨ ਦੌਰ ਲਿਖੋ।

7. ਸਿੰਧ ਦੇ ਲੋਕਾਂ ਨੂੰ ਕਿਹੜੀਆਂ ਚਾਰ ਧਾਤਾਂ ਜਾਣੀਆਂ ਜਾਂਦੀਆਂ ਸਨ?

8. ਬ੍ਰਹਮਣ ਗ੍ਰੰਥ ਤੋਂ ਕੀ ਭਾਵ ਹੈ?

9. ਮੋਹਨਜੋਦੜੋ ਦਾ ਕੀ ਅਰਥ ਹੈ?

10. ਹੜੱਪਾ ਦੇ ਲੋਕਾਂ ਦੀਆਂ ਮੁੱਖ ਫਸਲਾਂ ਕੀ ਹਨ?

11. ਪ੍ਰਾਚੀਨ ਕਾਲ ਦੌਰਾਨ ਭਾਰਤ ਆਏ ਦੋ ਚੀਨੀ ਯਾਤਰੀਆਂ ਦੇ ਨਾਮ ਦੱਸੋ?

12. ਪ੍ਰਿਥਵੀ ਰਾਜ ਰਾਸੋ ਵਿੱਚ ਕਿਸ ਸ਼ਾਸਕ ਦੇ ਜੀਵਨ ਦਾ ਵਰਣਨ ਹੈ

8. ਭਾਰਤ ਦੇ ਰਾਜਨੀਤਿਕ ਨਕਸ਼ੇ 'ਤੇ ਕੋਈ ਵੀ ਚਾਰ ਸਥਾਨ ਲੱਭੋ ਅਤੇ 5 ਲਾਈਨਾਂ ਵਿੱਚ ਉਹਨਾਂ ਦੀ ਮਹੱਤਤਾ ਨੂੰ ਸਮਝਾਓ (ਵਿਆਖਿਆ ਦੇ ਨਾਲ ਹਰੇਕ ਸਹੀ ਉੱਤਰ ਵਿੱਚ 4 ਅੰਕ ਹੋਣਗੇ।

ਲੋਥਲ, ਟੈਕਸਲਾ, ਮਗਧ, ਪਾਟਿਲਪੁਤਰ, ਕਾਲੀਬਾਂਗਨ, ਰਾਜਗੀਰ, ਸੰਘੋਲ, ਥਾਨੇਸਰ, ਕਨੌਜ, ਗੰਧਾਰ   (16 Marks)

LIBRARY

[N S. B]

EVE:- 23/12/2023

Exam Code: 121201   Paper Code: 1132
     (70)

Programme: Bachelor of Arts Semester-1

Course Title: History (History of India upto C.1000)

Course Code: BARL-1273

Time Allowed: 3 Hours   Max Marks: 80

NOTE: Attempt three questions, selecting one question from
first three Units in about 1200 words.   Attempt both
questions from Unit IV. Each question will carry 16 marks.

UNIT I

I.   Discuss the importance of the archaeological sources for
     the reconstruction of the History of India.
II. Explain the social, economic and religious life of
     Rigvedic Aryans.

UNIT-II

III. Write the principles of the teachings of Lord Buddha?
IV. Give an account of battle of Kalinga. What were its
     effects?

UNIT-III

V. Give the definition of Gandhara School of Art ant its features

VI. Give an account of the salient features of administration of Chola

UNIT IV

VII. **(COMPULSORY UNIT / ATTEMPT BOTH QUESTIONS)**

Answer any Eight questions. Each question will carry 2 marks

1. What is meant by Archaeology?
2. Name the four places in India, related to the Indus Valley Civilization.
3. What does the word 'Veda' means?
4. What are the name of Tri- Pitak?
5. What type of stories are found in Jataka books?
6. Write the three periods of Indian History.
7. Which four metals were known to the Indus people?
8. What is meant by Brahman Granth?
9. What is meant by Mohenjodaro?
10. What wee the main crops of Harappan people?
11. Name the two Chinese travellers who came to India during Ancient period?
12. The life of which ruler is described in Prithvi Raj Raso?

VIII. Locate any four places on the political map of India and explain their importance in 5 lines (Each correct answer with explanation will carry 4 marks)

&. Lothal, Taxila, Magadha, Patilaputra, Kalibangan, Rajgir, Sanghol, Kanauj, Gandhara, and Thanesar

(16 Marks)

Hindi Version

लगभग 1200 शब्दों में पहली तीन इकाइयों में से एक प्रश्न का चयन करते हुए, तीन प्रश्नों का प्रयास करें। इकाई IV से दोनों प्रश्नों का उत्तर दीजिए। प्रत्येक प्रश्न 16 अंक का होगा।

यूनिट –I

1. भारत के इतिहास के पुनर्निर्माण के लिए पुरातात्विक स्रोतों के महत्व पर चर्चा करें।
2. ऋग्वैदिक आर्यों के सामाजिक, आर्थिक और धार्मिक जीवन की व्याख्या करें।

यूनिट II

3. भगवान बुद्ध की शिक्षाओं के सिद्धांत लिखिए?
4. कलिंग के युद्ध का विवरण दीजिए। इसके प्रभाव क्या थे?

यूनिट III

5. गांधार कला विद्यालय की परिभाषा और इसकी विशेषताएं बताइए।
6. चोलों के प्रशासन की प्रमुख विशेषताओं का विवरण दीजिए।

यूनिट IV

7. (अनिवार्य इकाई / दोनों प्रश्न हल करें)
   किन्हीं आठ प्रश्नों के उत्तर दें— (द्वितीय, प्रत्येक प्रश्न 2 अंक का होगा)

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1. पुरातत्व से क्या तात्पर्य है?
2. सिंधु घाटी सभ्यता से संबंधित भारत के चार स्थानों के नाम बताइए।
3. वेद शब्द का क्या अर्थ है?
4. त्रि-पिटक के क्या नाम हैं?
5. जातक ग्रंथों में किस प्रकार की कहानियाँ मिलती हैं?
6. भारतीय इतिहास के तीन कालखंड लिखिए।
7. सिंधु लोग किन चार धातुओं के बारे में जानते थे?
8. ब्राह्मण ग्रंथ से क्या तात्पर्य है?
9. मोहनजोदड़ो से क्या तात्पर्य है?
10. हड़प्पा के लोगों की मुख्य फसलें कौन सी थीं?
11. प्राचीन काल में भारत आए दो चीनी यात्रियों के नाम बताएं?
12. पृथ्वी राज रासो में किस शासक के जीवन का वर्णन है

8. भारत के राजनीतिक मानचित्र पर किन्हीं चार स्थानों का पता लगाएँ और 5 पंक्तियों में उनके महत्त्व की व्याख्या करें (स्पष्टीकरण के साथ प्रत्येक सही उत्तर में 4 अंक होंगे)
लोथल, तक्षशिला, मगध, पाटिलपुत्र, कालीबंगा, राजगीर, संघोलै, थानेसर,कनौज, गांधार

Punjabi Version

ਪਹਿਲੇ ਤਿੰਨ ਯੂਨਿਟਾਂ ਵਿੱਚੋਂ ਇੱਕ ਪ੍ਰਸ਼ਨ ਦੀ ਚੋਣ ਕਰਦੇ ਹੋਏ ਲਗਭਗ 1200 ਸ਼ਬਦਾਂ ਵਿੱਚ ਤਿੰਨ ਪ੍ਰਸ਼ਨਾਂ ਦੇ ਉੱਤਰ ਦਿਓ। ਯੂਨਿਟ IV ਤੋਂ ਦੋਵਾਂ ਪ੍ਰਸ਼ਨ ਲਾਜ਼ਮੀ ਹਨ, ਹਰ ਪ੍ਰਸ਼ਨ 16 ਅੰਕਾਂ ਦਾ ਹੋਵੇਗਾ।

ਯੂਨਿਟ −I

I. ਭਾਰਤ ਦੇ ਇਤਿਹਾਸ ਦੇ ਪੁਨਰ ਨਿਰਮਾਣ ਲਈ ਪੁਰਾਤੱਤਵ ਸਰੋਤਾਂ ਦੀ ਮਹੱਤਤਾ ਬਾਰੇ ਚਰਚਾ ਕਰੋ।

II. ਰਿਗਵੈਦਿਕ ਆਰੀਅਨਾਂ ਦੇ ਸਮਾਜਿਕ, ਆਰਥਿਕ ਅਤੇ ਧਾਰਮਿਕ ਜੀਵਨ ਦੀ ਵਿਆਖਿਆ ਕਰੋ।

ਯੂਨਿਟ −II

III. ਭਗਵਾਨ ਬੁੱਧ ਦੀਆਂ ਸਿੱਖਿਆਵਾਂ ਦੇ ਸਿਧਾਂਤ ਲਿਖੋ।

IV. ਕਲਿੰਗਾ ਦੀ ਲੜਾਈ ਦਾ ਵੇਰਵਾ ਦਿਓ। ਇਸ ਦੇ ਪ੍ਰਭਾਵ ਕੀ ਸਨ?

ਯੂਨਿਟ −III

V. ਗੰਧਾਰ ਸਕੂਲ ਆਫ਼ ਆਰਟ ਦੀ ਪਰਿਭਾਸ਼ਾ ਦਿਓ, ਇਸ ਦੀਆਂ ਵਿਸ਼ੇਸ਼ਤਾਵਾਂ ਦੱਸੋ

VI. ਚੋਲਾਂ ਦੇ ਪ੍ਰਸ਼ਾਸਨ ਦੀਆਂ ਮੁੱਖ ਵਿਸ਼ੇਸ਼ਤਾਵਾਂ ਦਾ ਵੇਰਵਾ ਦਿਓ।

ਯੂਨਿਟ -IV

VII. (ਲਾਜ਼ਮੀ ਯੂਨਿਟ/ਦੋਵੇਂ ਸਵਾਲਾਂ ਦੀ ਕੋਸ਼ਿਸ਼)

ਕਿਸੇ ਵੀ ਅੱਠ ਸਵਾਲਾਂ ਦੇ ਜਵਾਬ ਦਿਓ:- ਹਰੇਕ ਸਵਾਲ ਵਿੱਚ 2 ਅੰਕ ਹੋਣਗੇ

1. ਪੁਰਾਤੱਤਵ ਵਿਗਿਆਨ ਤੋਂ ਕੀ ਭਾਵ ਹੈ?
2. ਸਿੰਧੂ ਘਾਟੀ ਸਭਿਅਤਾ ਨਾਲ ਸਬੰਧਤ ਭਾਰਤ ਦੇ ਚਾਰ ਸਥਾਨਾਂ ਦੇ ਨਾਮ ਦੱਸੋ।
3. 'ਵੇਦ' ਸ਼ਬਦ ਦਾ ਕੀ ਅਰਥ ਹੈ?
4. ਤ੍ਰਿਪਿਟਕ ਦੇ ਨਾਮ ਕੀ ਹਨ?
5. ਜਾਤਕ ਪੁਸਤਕਾਂ ਵਿੱਚ ਕਿਸ ਕਿਸਮ ਦੀਆਂ ਕਹਾਣੀਆਂ ਮਿਲਦੀਆਂ ਹਨ?
6. ਭਾਰਤੀ ਇਤਿਹਾਸ ਦੇ ਤਿੰਨ ਦੌਰ ਲਿਖੋ।
7. ਸਿੰਧ ਦੇ ਲੋਕਾਂ ਨੂੰ ਕਿਹੜੀਆਂ ਚਾਰ ਧਾਤਾਂ ਜਾਣੀਆਂ ਜਾਂਦੀਆਂ ਸਨ?
8. ਬ੍ਰਾਹਮਣ ਗ੍ਰੰਥ ਤੋਂ ਕੀ ਭਾਵ ਹੈ?
9. ਮੋਹੇਨਜੋਦੜੋ ਦਾ ਕੀ ਅਰਥ ਹੈ?
10. ਹੜੱਪਾ ਦੇ ਲੋਕਾਂ ਦੀਆਂ ਮੁੱਖ ਫਸਲਾਂ ਕੀ ਹਨ?
11. ਪ੍ਰਾਚੀਨ ਕਾਲ ਦੌਰਾਨ ਭਾਰਤ ਆਏ ਦੋ ਚੀਨੀ ਯਾਤਰੀਆਂ ਦੇ ਨਾਮ ਦੱਸੋ?
12. ਪ੍ਰਿਥਵੀ ਰਾਜ ਰਾਸੋ ਵਿੱਚ ਕਿਸ ਸ਼ਾਸਕ ਦੇ ਜੀਵਨ ਦਾ ਵਰਣਨ ਹੈ?

VIII. ਭਾਰਤ ਦੇ ਰਾਜਨੀਤਿਕ ਨਕਸ਼ੇ 'ਤੇ ਕੋਈ ਵੀ ਚਾਰ ਸਥਾਨ ਲੱਭੋ ਅਤੇ 5 ਲਾਈਨਾਂ ਵਿੱਚ ਉਹਨਾਂ ਦੀ ਮਹੱਤਤਾ ਨੂੰ ਸਮਝਾਓ (ਵਿਆਖਿਆ ਦੇ ਨਾਲ ਹਰੇਕ ਸਹੀ ਉੱਤਰ ਵਿੱਚ 4 ਅੰਕ ਹੋਣਗੇ।

ਲੋਥਲ, ਟੈਕਸਲਾ, ਸਰਾਧ, ਪਾਟਲੀਪੁਤਰ, ਕਾਲੀਬਾਂਗਨ, ਰਾਜਗੀਰ, ਸੰਘੋਲੈਂਡ ਥਾਨੇਸਰ, ਕਨੌਜ, ਗੰਧਾਰ

Exam Code: 121201   Paper Code: 1140

Programme: Bachelor of Arts (Semester: I)

Course Title: Human Rights (Conceptual Understanding of Human Rights and Duties)

Course Code: BARL-1295

Time Allowed: 3 Hours   Max Marks: 80

Attempt five questions in all, selecting atleast one question from each section. The fifth question may be attempted from any Section. Each question carries sixteen marks.

Section A

1. Explain the concept of Human Rights and also discuss about its Nature?
2. Write a note Human Rightsand discuss its origin inHistorical context?

Section B

3.Give Meaning of Human Duties and also discuss about its Nature?
4. Explain importance of Human duties and also write about its classification?

Section C

5. Write a note on Natural Rights Theory in relation to Human Rights?
6.Discuss about Liberal Theory as one of the Basis of Human Rights?

Section D

7. Give Marxian Viewpoint about Human Rights?
8. Give Feministic Perspective of Human Rights.

(HINDI VERSION)

उम्मीदवारों को प्रत्येकअनुभाग से कम से कम एक प्रश्न का चयन करते हुए 8 में से पांच प्रश्नों का उत्तर देना होगा। पांचवें प्रश्न को किसी भी अनुभाग से किया जा सकता है। प्रत्येक प्रश्न सोलह अंक का है।

अनुभाग ए

Q1. मानवाधिकार की अवधारणा को स्पष्ट करें तथा इसकी प्रकृति के बारे में भी चर्चा करें ?

Q2.मानवाधिकार पर एक नोट लिखें और ऐतिहासिक संदर्भ में इसकी उत्पत्ति पर चर्चा करें ?

अनुभाग बी

Q3.मानवीय कर्तव्यों का अर्थ बताइए और इसकी प्रकृति के बारे में भी चर्चा कीजिए ?

Q4. मानवीय कर्तव्यों का महत्व समझाइए तथा इसके वर्गीकरण के बारे में भी लिखिए ?

अनुभाग सी

Q5. मानवाधिकार के संबंध में प्राकृतिक अधिकार सिद्धांत पर एक नोट लिखें ?

Q6.मानवाधिकारों के आधारों में से एक के रूप में उदारवादी सिद्धांत के बारे में चर्चा करें ?

अनुभाग डी

Q7 मानवाधिकार के बारे में मार्क्सवादी दृष्टिकोण बताएं ?

Q8 मानवाधिकारों का नारीवादी परिप्रेक्ष्य दीजिए ?

Exam Code: 121201   Paper Code: 1145
(30)

Programme: Bachelor of Arts Semester-1

Course Title: Philosophy (Elementary Philosophy)

Course Code: BARL-1377

Time Allowed: 3 Hours   Max Marks: 80

Note: Candidates are required to attempt any five questions, at least one question from each section. The fifth question may be attempted from any section. Each question will have 16 marks.

Section-A

1. Explain definition, meaning and Branches of Philosophy.
2. Discuss the relation between Religion and Philosophy. Explain its Ethical perspective.

Section-B

3. Discuss the factors disturbing World Peace and explain the factors strengthening the World Peace.
4. Explain the social problems of Gender and Casteism. Suggest remedies to overcome it.

Section-C

5. Explain Guru Nanak's Philosophical concept of Sangat, Pangat and Sarbat Da Bhala.

6. Discuss Gandhi's concept of Ahimsa.

Section-D

7. Discuss the relationship between Culture and Civilization.

8. Define Civilization and discuss its different components.

Punjnabi Version

ਨੋਟ: ਉਮੀਦਵਾਰਾਂ ਨੂੰ ਪੰਜ ਸਵਾਲਾਂ ਦੀ ਕੋਸ਼ਿਸ਼ ਕਰਨ ਦੀ ਲੋੜ ਹੁੰਦੀ ਹੈ।ਹਰੇਕ ਭਾਗ ਵਿੱਚੋਂ ਘੱਟੋ-ਘੱਟ ਇੱਕ ਸਵਾਲ ਚੁਣ ਕੇ, ਪੰਜਵਾਂ ਸਵਾਲ ਕਿਸੇ ਵੀ ਸੈਕਸ਼ਨ ਤੋਂ ਲਿਆ ਜਾ ਸਕਦਾ ਹੈ।ਹਰੇਕ ਪ੍ਰਸ਼ਨ ਵਿੱਚ 16 ਅੰਕ ਹੋਣਗੇ।

ਸੈਕਸ਼ਨ-ਏ

1. ਫਿਲਾਸਫੀ ਦੀ ਪਰਿਭਾਸ਼ਾ, ਅਰਥ ਅਤੇ ਸ਼ਾਖਾਵਾਂ ਦੀ ਵਿਆਖਿਆ ਕਰੋ।
2. ਧਰਮ ਅਤੇ ਫਿਲਾਸਫੀ ਵਿਚਕਾਰ ਸਬੰਧਾਂ ਬਾਰੇ ਚਰਚਾ ਕਰੋ। ਇਸਦੇ ਨੈਤਿਕ ਦਿਸ਼੍ਰਟੀਕੋਣ ਦੀ ਵਿਆਖਿਆ ਕਰੋ।

ਸੈਕਸ਼ਨ-ਬੀ

3. ਵਿਸ਼ਵ ਸ਼ਾਂਤੀ ਨੂੰ ਭੰਗ ਕਰਨ ਵਾਲੇ ਕਾਰਕਾਂ ਦੀ ਚਰਚਾ ਕਰੋ ਅਤੇ ਵਿਸ਼ਵ ਸ਼ਾਂਤੀ ਨੂੰ ਮਜ਼ਬੂਤ ਕਰਨ ਵਾਲੇ ਕਾਰਕਾਂ ਦੀ ਵਿਆਖਿਆ ਕਰੋ।
4. ਲਿੰਗ ਅਤੇ ਜਾਤੀਵਾਦ ਦੀਆਂ ਸਮਾਜਿਕ ਸਮੱਸਿਆਵਾਂ ਦੀ ਵਿਆਖਿਆ ਕਰੋ।ਇਸ ਨੂੰ ਦੂਰ ਕਰਨ ਲਈ ਉਪਾਅ ਸੁਝਾਓ।

ਸੈਕਸ਼ਨ-ਸੀ

5. ਸੰਗਤ, ਪੰਗਤ ਅਤੇ ਸਰਬੱਤ ਦੇ ਭਲੇ ਬਾਰੇ ਗੁਰੂ ਨਾਨਕ ਦੇਵ ਜੀ ਦੇ ਦਾਰਸ਼ਨਿਕ ਸੰਕਲਪ ਦੀ ਵਿਆਖਿਆ ਕਰੋ।
6. ਅਹਿੰਸਾ ਬਾਰੇ ਗਾਂਧੀ ਦੇ ਸੰਕਲਪ ਦੀ ਚਰਚਾ ਕਰੋ।

ਸੈਕਸ਼ਨ-ਡੀ

7. ਸੱਭਿਆਚਾਰ ਅਤੇ ਸੱਭਿਅਤਾ ਵਿਚਕਾਰ ਸੰਬਧਾਂ ਦੀ ਚਰਚਾ ਕਰੋ।
8. ਸੱਭਿਅਤਾ ਦੀ ਪਰਿਭਾਸ਼ਾ ਦਿਓ ਅਤੇ ਇਸਦੇ ਵੱਖ-ਵੱਖ ਹਿੱਸਿਆਂ 'ਤੇ ਚਰਚਾ ਕਰੋ।

Hindi Version

नोट: उम्मीदवारों को प्रत्येक खंड से कम से कम एक प्रश्न का चयन करते हुए, पांच प्रश्नों का प्रयास करना आवश्यक है। पांचवां प्रश्न किसी भी खंड से हल किया जा सकता है। प्रत्यके प्रश्न 16 अंक का होगा।

सैक्शन–ऐ

1. दर्शन की परिभाषा, अर्थ और शाखाओं की व्याख्या करें।
2. धर्म और दर्शन के बीच संबंध की विवेचना कीजिए। इसके नैतिक दृष्टिकोण की व्याख्या कीजिए।

सैक्शन–बी

3. विश्व शांति को भंग करने वाले कारकों की विवेचना कीजिए तथा विश्व शांति को सुदृढ़ करने वाले कारकों की व्याख्या कीजिए।
4. लिंग और जातिवाद की सामाजिक समस्याओं की व्याख्या कीजिए। इससे निजात पाने के उपाय सुझाएं।

सैक्शन–सी

5. संगत, पंगत और सरबत दा भला की गुरु नानक की दार्शनिक अवधारणा की व्याख्या करें।
6. गांधी की अहिंसा की अवधारणा पर चर्चा करें।

सैक्शन–डी

7. संस्कृति और सभ्यता के बीच संबंधों पर चर्चा करें।
8. सभ्यता की परिभाषा दीजिए तथा इसके विभिन्न घटकों की विवेचना कीजिए।

Exam Code: 121201　　　　　　　　Paper Code: 1141
(60)

Programme: Bachelor of Arts
Semester- I

Course Title: Political Science (Political Theory-I)

Course Code: BARL-1406

Time Allowed: 3 Hours　　　　　　Max Marks: 80

Note: Candidates are required to attempt five questions in all, selecting at least one question from each section. The fifth question may be attempted from any Section. Each question carries sixteen marks.

Section A

1. Define Traditional Political Science and Mention about its Scope ?
2. Write about Relationship of Political Science with Sociology and History?

Section B

3. Critically examine Social Contract Theory as given by John Locke?
4. Write about Marxian Theory about Origin of State?

Section C

5. Write about Gandhiji's Views on State?
6. Discuss about Marxian Views on State?

Section D

7. Write a note on Sovereignty?
8. Write about Austin's theory of Sovereignty?

Hindi Version

यूनिट–I

1. पारंपरिक राजनीति विज्ञान को परिभाषित करें तथा इसके क्षेत्र का उल्लेख करें

2. समाजशास्त्र और इतिहास के साथ राजनीति विज्ञान के संबंध के बारे में लिखें?

यूनिट–II

3. जॉन लॉक द्वारा दिए गए सामाजिक अनुबंध सिद्धांत का आलोचनात्मक परीक्षण करें?

4. राज्य की उत्पत्ति के बारे में मार्क्सवादी सिद्धांत के बारे में लिखें?

यूनिट–III

5. राज्य पर गांधीजी के विचारों के बारे में लिखें?

6. राज्य पर मार्क्सवादी विचारों के बारे में चर्चा करें

यूनिट–IV

7. संप्रभुता पर एक नोट लिखें?

8. ऑस्टिन की संप्रभुता के सिद्धांत के बारे में लिखें?

Exam Code:103201   Paper Code: 1135

Bachelor of Arts (Semester-I)
Course Title: Public Administration (Administrative Theory)
Course Code: BARL-1414

Time Allowed: 3 Hours   Max Marks: 80

Note: Attempt five questions in all, selecting atleast one question from each section. Fifth question may be attempted from any section. Each question carries 16 marks.

SECTION A

1. Define Public Administration and write about its Nature?
   लोक प्रशासन को परिभाषित करें तथा इसकी प्रकृति के बारे में लिखें?

2. Write a detailed note on the concept of Good Governance?
   सुशासन की अवधारणा पर एक विस्तृत टिप्पणी लिखें?

SECTION - B

3. Define organization discuss about features of formal organization?
   संगठन को परिभाषित करें,औपचारिक संगठन की विशेषताओं के बारे में चर्चा करें?

4. Write about meaning and Importance of Hierarchy in an organization ?
   किसी संगठन में पदानुक्रम के अर्थ और महत्व के बारे में लिखें?

SECTION - C

5. Discuss about role of Chief Executive in an organization?
   किसी संगठन में मुख्यकार्यकारी की भूमिका के बारे में चर्चा करें

6. Explain Meaning of Delegated legislation and its Importance in an organization?

2123   12

किसी संगठन में प्रत्यायोजित विधान का अर्थ और उसका महत्व स्पष्ट करें?

SECTION - D

7. What do you mean by a leadership? Discuss its characteristics and its role in an organization?

नेतृत्व से आप क्या समझते हैं? इसकी विशेषताओं और किसी संगठन में इसकी भूमिका पर चर्चा करें?

8. Define the concept of Communication in Public Administration and what are the different modes of communication that are used in an organization?

लोक प्रशासन में संचार की अवधारणा को परिभाषित करें और किसी संगठन में संचार के विभिन्न तरीकों का उपयोग क्या किया जाता है?

Exam Code: 121201   Paper Code: 9103

Bachelor of Arts Semester-I
Course Title: Punjabi (Compulsory)
Course Code: BARL-1421

Time Allowed: 3 Hours   Max Marks: 40

ਨੋਟ: ਹੇਠ ਲਿਖਿਆਂ ਵਿਚੋਂ ਕੋਈ ਪੰਜ ਪ੍ਰਸ਼ਨ ਕਰੋ । ਹਰ ਸੈਕਸ਼ਨ ਵਿਚੋਂ ਇਕ ਪ੍ਰਸ਼ਨ ਕਰਨਾ ਲਾਜ਼ਮੀ ਹੈ । ਪੰਜਵਾਂ ਪ੍ਰਸ਼ਨ ਕਿਸੇ ਵੀ ਸੈਕਸ਼ਨ ਵਿਚੋਂ

ਕੀਤਾ ਜਾ ਸਕਦਾ ਹੈ । ਹਰੇਕ ਪ੍ਰਸ਼ਨ ਦੇ 8 ਅੰਕ ਹਨ ।

ਸੈਕਸ਼ਨ-A

1. ਖੇਰ ਪੰਜਾਬੀ ਦੀ ਕਵਿਤਾ ਦਾ ਸਾਰ ਲਿਖੋ ।

2. ਸਮਾਂ ਕਵਿਤਾ ਦਾ ਵਿਸ਼ਾ ਵਸਤੂ ਲਿਖੇ ।

ਸੈਕਸ਼ਨ-B

3. ਬਾਬਾ ਫਰੀਦ ਦੀ ਜੀਵਨੀ ਦਾ ਸਾਰ ਲਿਖੇ ।

4. ਗੁਰੂ ਨਾਨਕ ਦੇਵ ਜੀ ਦੀ ਜੀਵਨੀ ਦਾ ਵਿਸ਼ਾ ਵਸਤੂ ਲਿਖੇ ।

ਸੈਕਸ਼ਨ-C

5. .ਹੇਠ ਲਿਖੇ ਕਿਸੇ ਇਕ ਵਿਸੇ ਤੇ ਪੈਰ੍ਹਾ ਰਚਨਾ ਕਰੋ ।

    1. ਪ੍ਰਦੂਸ਼ਣ   2. ਵਿਦਿਆਰਥੀ ਤੇ ਅਨੁਸਾਸ਼ਨ   3. ਵਾਤਾਵਰਣ

6. ਪੈਰ੍ਹਾ ਪੜ੍ਹ ਕੇ ਪ੍ਰਸਨਾਂ ਦੇ ਉੱਤਰ ਦਿਓ ।

ਗੁਰੂ ਨਾਨਕ ਦੇਵ ਜੀ ਦਾ ਆਗਮਨ ਨਾ ਕੇਵਲ ਪੰਜਾਬ ਵਿਚ ਬਲਕਿ ਸੰਪੂਰਨ ਭਾਰਤ ਲਈ ਇਕ ਮਹੱਤਵਪੂਰਨ ਘਟਨਾ ਹੈ । ਬਾਹਲੇ ਹੱਲਿਆਂ ਦੁਆਰਾ ਬੀਤਿਆਂ ਵੇਲੇ ਦੇ ਹਾਕਮਾਂ ਦੁਆਰਾ ਸ਼ੋਸ਼ਿਤ ਪੰਜਾਬ ਪ੍ਰਦੇਸ਼ ਪੁਰਾਤਨ ਕਾਲ ਵਾਂਗ ਬਾਕੀ ਦੇਸ਼ ਨੂੰ ਅਗਵਾਈ ਤਾਂ ਕੀ ਦੇ ਸਕਦਾ ਸੀ, ਉਸ ਲਈ ਆਪਣਾ ਆਪ ਸੰਭਾਲਣਾ ਵੀ ਅਸੰਭਵ ਜਾਪਦਾ ਸੀ । ਅਜਿਹੇ ਰੋਗ ਗ੍ਰਸਤ ਵਾਤਾਵਰਨ ਵਿਚ ਕ੍ਰਾਂਤੀਕਾਰੀ ਗੁਰੂ ਨਾਨਕ ਨੇ ਪਰੰਪਰਾਗਤ ਸੰਤ ਪਰੰਪਰਾ ਤੋਂ ਹੱਟ ਕੇ ਨਾ ਕੋਈ ਹਿੰਦੂ ਨਾ ਮੁਸਲਮਾਨ ਦਾ ਨਾਅਰਾ ਬੁਲੰਦ ਕੀਤਾ ਅਤੇ ਅਤੇ ਮਾਨਵ ਏਕਤਾ, ਆਤਮਕ ਏਕਤਾ ਅਤੇ ਰੱਬ ਦੀ ਉਕਾਈ ਵੱਲ ਆਪਣੀ ਸੁੰਦਰ ਪੁਰ ਕੀ ਬਾਣੀ ਦੁਆਰਾ ਲੋਕਾਂ ਨੂੰ ਕੀਲਿਆ । ਬ੍ਰਹਮਣਵਾਦ ਦੇ ਕਰਮ ਕਾਂਡਾਂ ਵਿਰੁੱਧ ਆਵਾਜ਼ ਉਠਾਉਂਦਿਆ ਆਪਣੀਆ ਉਦਾਸੀਆਂ ਦੌਰਾਨ ਥਾਂ ਥਾਂ ਜਾ ਕੇ ਰੱਬੀ ਸੰਦੇਸ਼ ਦਿੱਤਾ । ਇਕ ਨਵੀਨ ਪੰਧਤੀ ਦੀ ਸਥਾਪਨਾ ਕੀਤੀ ਇਸੇ ਗੁਰੂ ਪਰੰਪਰਾ ਵਿਚ ਪੰਜਵੇਂ ਗੁਰੂ ਅਰਜਨ ਦੇਵ ਜੀ ਨੇ ਆਪਣੇ ਤੋਂ ਪਹਿਲਾਂ । ਗੁਰੂ ਸਾਹਿਬਾਨ ਦੀ ਬਾਣੀ ਅਤੇ ਹੋਰ ਸੰਤਾਂ ਦੀ ਬਾਣੀ ਦਾ ਸੰਕਲਨ ਕੀਤਾ । ਮੇਰਾ ਯਕੀਨ ਹੈ ਕਿ ਗੁਰੂ ਗ੍ਰੰਥ ਸਾਹਿਬ ਵਿਚ ਅਜਿਹੀ ਕੋਈ ਰਚਨਾ ਨਹੀਂ ਮਿਲਦੀ ਜਿਸ ਵਿਚ ਵੱਖ-ਵੱਖ ਵਿਸ਼ਿਸ਼ਟ ਮਹਾਨ ਦੈਵੀ ਕਵੀਆਂ , ਸੰਤਾਂ , ਭਗਤਾਂ ਆਦਿ ਦੀਆਂ ਰਚਨਾਵਾਂ ਨੂੰ ਇਕ ਵਿਸ਼ੇਸ਼ ਸਾਧਨਾਂ ਅਧੀਨ ਇੱਕਤਰਤ ਕਰਨ ਦਾ ਸੰਕਲਪ ਕੀਤਾ ਗਿਆ ਹੋਵੇ ।

ਪ੍ਰਸ਼ਨ: 1.   ਗੁਰੂ ਨਾਨਕ ਦੇਵ ਜੀ ਦਾ ਜਨਮ ਕਦੋਂ ਹੋਇਆ?

ਪ੍ਰਸ਼ਨ: 2.   ਗੁਰੂ ਜੀ ਨੇ ਰੱਬੀ ਸੰਦੇਸ਼ ਨੂੰ ਲੋਕਾਂ ਤੱਕ ਕਿਵੇਂ ਪਹੁੰਚਾਇਆ?

ਪ੍ਰਸ਼ਨ: 3.   ਗੁਰੂ ਗ੍ਰੰਥ ਸਾਹਿਬ ਇਕ ਵਿਲੱਖਣ ਰਚਨਾ ਕਿਵੇਂ ਹੈ ।

ਪ੍ਰਸ਼ਨ: 4.   ਉਪਰੋਕਤ ਪੈਰ੍ਹੇ ਦਾ ਦੂਜਾ ਸਿਰਲੇਖ ਦਿਓ ।

ਸੈਕਸ਼ਨ-D

7.   ਉਚਰਨ ਅੰਗਾਂ ਤੇ ਨੋਟ ਲਿਖੇ ।

8.   ਵਿਅੰਜਨਾਂ ਦੀ ਪਰਿਭਾਸ਼ਾ ਦਿਓ ਅਤੇ ਵਰਗੀਕਰਨ ਵੀ ਕਰੋ ।

Paper Code: 1102

Programme	Exam Code	Course Code
Bachelor of Arts	121201	BARL-1421
Bachelor of Science (Medical)	121301	BSML-1421
Bachelor of Science (Non-Medical)		BSNL-1421
Bachelor of Science (Computer Science)		BCSL-1421
Bachelor of Science (Economics)		BECL-1421
Bachelor of Commerce	121101	BCRL-1421
Bachelor of Business Administration	121701	BBRL-1421

Semester-I

Course Title: Punjabi (Compulsory)
(230)

Time Allowed: 3 Hours   **Max Marks: 80**

Note : ਹੇਠ ਲਿਖਿਆਂ ਵਿਚੋਂ ਕੋਈ ਪੰਜ ਪ੍ਰਸ਼ਨ ਕਰੋ । ਹਰ ਸੈਕਸ਼ਨ ਵਿਚੋਂ ਇਕ ਪ੍ਰਸ਼ਨ ਕਰਨਾ ਜ਼ਰੂਰੀ ਹੈ। ਪੰਜਵਾਂ ਪ੍ਰਸ਼ਨ ਕਿਸੇ ਵੀ ਸੈਕਸ਼ਨ ਵਿਚੋਂ ਕੀਤਾ ਜਾ ਸਕਦਾ ਹੈ। ਹਰੇਕ ਪ੍ਰਸ਼ਨ ਦੇ 16 ਅੰਕ ਹਨ।

ਸੈਕਸ਼ਨ - A

1. ਹੇਠ ਲਿਖੇ ਕਾਵਿ-ਟੋਟਿਆਂ ਦੀ ਪ੍ਰਸੰਗ ਸਹਿਤ ਵਿਆਖਿਆ ਕਰੋ-

ੳ) ਗੱਲਾਂ ਨਾਲ ਕੀ ਪਿਆ ਪਰਚਾਉਂਦਾ ਏ
ਉਸਦੇ ਪ੍ਰੇਮ ਨੂੰ ਅਸਾਂ ਪਰਤਾ ਲਿਆ ਹੈ ।
ਮਾਰੇ ਕੁਝਾਂ ਦੀ ਹਿੱਕੇ ਇਹ ਗਾਯਾਨ ਗੋਲੀ,
ਬੂਹੇ ਵੜਦਿਆਂ ਜਿੰਨੂੰ ਭਰਮਾ ਲਿਆ ਹੈ ।
ਉਥੇ ਕੇਰਡੂ ਮੋਠ ਵਿਚ ਮੋਹ ਪਾ ਕੇ
ਅਸਾਂ ਆਪਣਾ-ਆਪ ਗੁਆ ਲਿਆ ਹੈ ।

ਅ) ਮੈਂ ਪੰਜਾਬੀ, ਪੰਜਾਬ ਦਾ ਰਹਿਣ ਵਾਲਾ,
ਹਾਂ ਮੈਂ ਪੇਂਡੂ ਪਰ ਸ਼ਹਿਰੀਏ ਰੰਗ ਦਾ ਹਾਂ ।
ਜਮਤਾਂ ਫਾਰਸੀ, ਉਰਦੂ ਵੀ ਖੂਬ ਬੋਲਾਂ,
ਬੋਹੜੀ ਬਹੁੜੀ ਅੰਗਰੇਜੀ ਵੀ ਅੰਗਦਾ ਹਾਂ ।
ਬੋਲੀ ਆਪਣੀ ਨਾਲ ਪਿਆਰ ਰੱਖਾਂ,
ਇਹ ਗੱਲ ਆਖਣੋਂ ਕਦੇ ਨਾ ਸੰਗਦਾ ਹੈ ।

8+8 =16

2. ਮਜਦੂਰ ਕਵਿਤਾ ਦਾ ਵਿਸ਼ਾ ਵਸਤੂ ਲਿਖੋ । 16

ਸੈਕਸ਼ਨ –B

3. ਮਹਾਤਮਾ ਬੁੱਧ ਦਾ ਨਾਇਕ ਬਿੰਬ ਉਸਾਰੋ। 16

4. ਰਾਣੀ ਲਕਸ਼ਮੀ ਬਾਈ ਜੀਵਨੀ ਦਾ ਸਾਰ ਲਿਖੋ। 16

ਸੈਕਸ਼ਨ -C

5. ਹੇਠ ਲਿਖੇ ਕਿਸੇ ਇਕ ਵਿਸ਼ੇ ਤੇ ਪੈਰ੍ਹਾ ਰਚਨਾ ਕਰੋ।
   1. ਦਹੇਜ ਪ੍ਰਥਾ
   2. ਸਮਾਂ
   3. ਰਾਜਨੀਤੀ   16

6. ਹੇਠ ਲਿਖੇ ਪੈਰੇ ਨੂੰ ਪੜ੍ਹ ਕੇ ਪ੍ਰਸ਼ਨਾਂ ਦੇ ਉੱਤਰ ਦਿਓ-

   ਜਹਾਂਗੀਰ ਆਪਣੇ ਬਹੁਤ ਸਾਰੇ ਕੰਮਾਂ ਵਿਚ ਆਪਣੇ ਬਾਪ
   ਅਕਬਰ ਬਾਦਸ਼ਾਹ ਦੇ ਬਿਲਕੁਲ ਉਲਟ ਸੀ, ਪਰ ਧਾਰਮਿਕ
   ਵਿਚਾਰਾਂ ਵਿਚ ਤਾਂ ਦੋਹਾਂ ਵਿਚ ਜ਼ਮੀਨ ਅਸਮਾਨ ਦਾ ਫ਼ਰਕ
   ਸੀ। ਅਕਬਰ ਨੇ ਜਿੱਥੇ ਸਾਰੇ ਧਰਮਾਂ ਨੂੰ ਚੰਗਾ ਜਾਣਦੇ ਹੋਏ
   ਆਪਣੀ ਹਕੂਮਤ ਨੂੰ ਪੱਕਿਆਂ ਕਰਨ ਲਈ ਆਪਣੇ ਵਿਚਾਰ
   ਅਨੁਸਾਰ ਇਕ ਨਵੇਂ ਧਰਮ ਦੀ ਬੁਨਿਆਦ ਰੱਖ ਕੇ ਇਸਲਾਮੀ
   ਤੁਅੱਸਬ ਨੂੰ ਦੂਰ ਹਟਾ ਕੇ ਲੋਕਾਂ ਨੂੰ ਖੁਸ਼ ਕਰਨ ਦੀ ਪਾਲਿਸੀ
   ਅਖਤਿਆਰ ਕੀਤੀ ਸੀ, ਉੱਥੇ ਜਹਾਂਗੀਰ ਬਿਲਕੁਲ ਉਸ ਦੇ
   ਵਿਰੁੱਧ ਇਸਲਾਮੀ ਤੁਅੱਸਬ ਦਾ ਪੁਤਲਾ ਸੀ ਤੇ ਆਪਣੇ ਬਾਪ
   ਦੇ ਧਾਰਮਿਕ ਵਿਚਾਰਾਂ ਦੇ ਕਾਰਨ ਉਸ ਦੇ ਅੰਦਰੋ-ਅੰਦਰੀ
   ਸਖ਼ਤ ਵਿਰੋਧੀ ਸੀ। ਇਸ ਦਾ ਸਬੂਤ ਇਸ ਗੱਲ ਤੋਂ ਮਿਲਦਾ
   ਹੈ ਕਿ ਜਹਾਂਗੀਰ ਨੇ ਆਪਣੇ ਬਾਪ ਦੇ ਨਵੇਂ ਧਰਮ ਚਲਾਉਣ ਦੇ
   ਇਰਾਦੇ ਵਿਚ ਮਦਦ ਕਰਨ ਵਾਲੇ ਉਸ ਦੇ ਇਕ ਪੱਕੇ ਦੋਸਤ
   ਅੱਬੁਲ ਫਜ਼ਲ ਨੂੰ ਮਰਵਾ ਦਿੱਤਾ ਸੀ।

   1. ਧਰਮ ਸੰਬੰਧੀ ਅਕਬਰ ਦੇ ਕੀ ਵਿਚਾਰ ਸਨ?
   2. ਪੈਰੇ ਦਾ ਢੁੱਕਵਾਂ ਸਿਰਲੇਖ ਦਿਓ।

3. ਜਹਾਂਗੀਰ ਦੇ ਧਰਮ ਸੰਬੰਧੀ ਕੀ ਵਿਚਾਰ ਸਨ?

4. ਮੋਟੇ ਸ਼ਬਦਾਂ ਦੇ ਅਰਥ ਲਿਖੋ।   16

ਸੈਕਸ਼ਨ –D

7. ਸਵਰ ਧੁਨੀਆਂ ਤੇ ਨੋਟ ਲਿਖੋ   16

8. ਧੁਨੀ ਵਿਉਂਤ ਦੀ ਪਰਿਭਾਸ਼ਾ ਦਿੰਦੇ ਹੋਏ ਵਿਅੰਜਨ ਧੁਨੀਆਂ ਤੇ ਨੋਟ ਲਿਖੋ।   16

Paper Code: 1101

Programme	Exam Code	Course Code
Bachelor of Arts (Journalism and Mass Communications)	116401	BJML-1421
Bachelor of Science (Fashion Designing)	119601	BFDL-1421
Bachelor of Science (Home Science)	119701	BHSL-1421
Bachelor of Computer Applications	117901	BCAL-1421
Bachelor of Science (Information Technology)	118001	BITL-1421
Bachelor of Science (Bio-Technology)	120601	BBTL-1421

Semester-I
Course Title: Punjabi (Compulsory)
(150)

Time Allowed: 3 Hours   Max Marks: 80

ਨੋਟ:- ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਦੇ ਚਾਰ ਸੈਕਸ਼ਨ ਹਨ। ਹਰ ਸੈਕਸ਼ਨ ਵਿੱਚੋਂ ਇੱਕ ਪ੍ਰਸ਼ਨ ਲਾਜ਼ਮੀ ਹੈ ਅਤੇ ਪੰਜਵਾਂ ਪ੍ਰਸ਼ਨ ਕਿਸੇ ਵੀ ਸੈਕਸ਼ਨ ਵਿੱਚੋਂ ਕੀਤਾ ਜਾ ਸਕਦਾ ਹੈ ਹਰ ਪ੍ਰਸ਼ਨ ਦੇ 16 ਅੰਕ ਹਨ ।

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ਸੈਕਸ਼ਨ-A

1. ਸੈਦਾ ਤੇ ਸਬਜਾ ਕਵਿਤਾ ਦਾ ਸਾਰ ਲਿਖੋ।   16

2. 'ਆਖਾਂ ਵਾਰਿਸ ਸ਼ਾਹ ਨੂੰ' ਕਵਿਤਾ ਦਾ ਵਿਸ਼ਾ ਵਸਤੂ ਲਿਖੋ।   16

ਸੈਕਸ਼ਨ-B

3. ਪ੍ਰੀਤਮ ਸਿੰਘ ਦੇ ਰੇਖਾ ਚਿੱਤਰ ਗੰਢਾ ਸਿੰਘ ਦਾ ਸਾਰ ਲਿਖੋ।   16

4. ਅਜੀਤ ਕੌਰ ਦੇ ਰੇਖਾ ਚਿੱਤਰ ਨਿੱਕੀ ਕਹਾਣੀ ਦਾ ਬਾਦਸ਼ਾਹ ਦਾ ਵਿਸ਼ਾ
   ਵਸਤੂ ਲਿਖੋ।   16

ਸੈਕਸ਼ਨ-C

5. ਕਿਸੇ ਇੱਕ ਵਿਸ਼ੇ ਉੱਪਰ ਪੈਰਾ ਰਚਨਾ ਕਰੋ:-
   ਸਮੇਂ ਦੀ ਕਦਰ
   ਵਿਦਿਆਰਥੀ ਜੀਵਨ ਵਿੱਚ ਤਕਨਾਲੋਜੀ ਦਾ ਮਹੱਤਵ
   ਪੰਜਾਬੀ ਮੇਲੇ ਤੇ ਤਿਉਹਾਰ   16

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6. ਪੈਰਾ ਪੜ੍ਹ ਕੇ ਪ੍ਰਸ਼ਨਾਂ ਦੇ ਉੱਤਰ ਲਿਖੋ:-

ਅੰਮ੍ਰਿਤਸਰ ਉੱਤਰੀ ਭਾਰਤ ਦਾ ਵੱਡਾ ਵਪਾਰਕ ਤੇ ਉਦਯੋਗਿਕ ਕੇਂਦਰ ਹੈ। ਇੱਥੇ ਅਨਾਜ, ਕੱਪੜੇ ਤੇ ਖੁਸ਼ਕ ਮੇਵਿਆਂ ਦੀਆਂ ਵੱਡੀਆਂ ਵੱਡੀਆਂ ਮੰਡੀਆਂ ਹਨ। ਦਰੀਆਂ, ਗਲੀਚੇ ਤੇ ਸ਼ਾਲਾਂ ਬਣਾਉਣ ਦੇ ਕਈ ਕਾਰਖਾਨੇ ਵੀ ਹਨ। ਹਾਥੀ ਦੰਦ ਦਾ ਤੇ ਕੁਝ ਹੋਰ ਕਲਾਤਮਕ ਕੰਮ ਹੱਥਾਂ ਨਾਲ ਹੁੰਦਾ ਹੈ। ਅੰਮ੍ਰਿਤਸਰ ਦੇ ਸਾਬਣ ਤੇ ਪਾਪੜ ਵੜੀਆਂ ਦੂਰ ਦੂਰ ਤੱਕ ਸੌਗਾਤ ਵਜੋਂ ਜਾਂਦੀਆਂ ਹਨ। ਹਰ ਸਾਲ ਲੱਖਾਂ ਯਾਤਰੀਆਂ ਵਧੀਆ ਹੋਟਲਾਂ ਤੋਂ ਛੁੱਟ ਇੱਥੇ ਇੱਕ ਵਿਸ਼ਾਲ ਦੋ ਮੰਜ਼ਿਲਾਂ ਗੁਰੂ ਰਾਮਦਾਸ ਨਿਵਾਸ ਬਣਿਆ ਹੋਇਆ ਹੈ ਜੋ ਹਰਿਮੰਦਰ ਦੇ ਨਾਲ ਲੱਗਦਾ ਹੈ। ਇਸ ਵਿੱਚ, ਚਾਰ ਵੱਡੇ ਹਾਲ ਤੇ 156 ਕਮਰੇ ਹਨ। ਹਰ ਧਰਮ ਦੇ ਯਾਤਰੂਆਂ ਨੂੰ ਇੱਥੇ ਰਿਹਾਇਸ਼ ਲਈ ਮੁਫ਼ਤ ਥਾਂ ਮਿਲਦੀ ਹੈ। ਇਸ ਦੇ ਨਾਲ ਹੀ ਗੁਰੂ ਦਾ ਅਟੁੱਟ ਲੰਗਰ ਦਿਨ ਰਾਤ ਚੱਲਦਾ ਹੈ ਜਿੱਥੇ ਹਰੇਕ ਅਮੀਰ ਗਰੀਬ ਭੋਜਨ ਕਰ ਸਕਦਾ ਹੈ।

1. ਅੰਮ੍ਰਿਤਸਰ ਵਿੱਚ ਕਿਹੜੀਆਂ ਕਿਹੜੀਆਂ ਵਸਤਾਂ ਦੀਆਂ ਵੱਡੀਆਂ ਮੰਡੀਆਂ ਲੱਗਦੀਆਂ ਸਨ

2. ਅੰਮ੍ਰਿਤਸਰ ਦੀ ਕਿਹੜੀ ਚੀਜ਼ ਸੌਗਾਤ ਵਜੋਂ ਜਾਈ ਜਾਂਦੀ ਹੈ

3. ਇੱਥੇ ਕਿਹੜਾ ਦੋ ਮੰਜ਼ਿਲਾਂ ਨਿਵਾਸ ਸਥਾਨ ਬਣਿਆ ਹੋਇਆ ਹੈ

4. ਪੈਰ੍ਹੇ ਦਾ ਢੁੱਕਵਾਂ ਸਿਰਲੇਖ ਦਿਉ।

16

ਸੈਕਸ਼ਨ-D

7. ਪੰਜਾਬੀ ਧੁਨੀ ਵਿਉਂਤ ਬਾਰੇ ਜਾਣਕਾਰੀ ਦਿਓ।

8. ਵਿਅੰਜਨ ਦੀ ਪਰਿਭਾਸ਼ਾ ਲਿਖ ਕੇ ਇਸ ਤੇ ਨੋਟ ਲਿਖੋ।   16

FoR REAPPEAR CANDIDATES (2022-23)

Paper Code: 9101

Programme	Exam Code	Course Code
Bachelor of Arts	121201	BARL-1431
Bachelor of Science (Non-Medical)	121301	BSNL-1431
Bachelor of Science (Medical)		BSML-1431
Bachelor of Science (Economics)		BECL-1431
Bachelor of Science (Computer Science)		BCSL-1431
Bachelor of Commerce	121101	BCRL-1431
Bachelor of Business Administration	121701	BBRL-1431
Bachelor of Arts (Journalism and Mass Communication)	116401	BJML-1431
Bachelor of Science (Fashion Designing)	119601	BFDL-1431
Bachelor of Science (Home Science)	119701	BHSL-1431
Bachelor of Computer Applications	117901	BCAL-1431
Bachelor of Science (Information Technology)	118001	BITL-1431
Bachelor of Science (Bio-Technology)	120601	BBTL-1431

Semester-I

Course Title: Punjab History and Culture

ਛ੍(0)

Time Allowed: 3 Hours   Max Marks: 40

Instructions

Attempt 5 questions in 1000 words, by atleast selecting One Question from each Unit and the 5th question may be attempted from any of the four Units   Each question will carry 8 marks.

Unit-I

1. Describe the Physical Features of Punjab.

2. Briefly write the Sources of the ancient History of Punjab.

Unit-II

3. Describe the Social and economic life of people of Indus Valley People.

4. Mention the various theories about the original home of the Aryans.

Unit-III

5. Give an account of the social and religious life of Vedic Age.

6. Analysis the Economic and Social life of Later Vedic Period.

Unit-IV

7. Describe the life and teachings of Mahatma Buddha.

8. Explain the life and teachings of Lord Mahavira?

Hindi Version

यूनिट–I

1. पंजाब की भौतिक विशेषताओं का वर्णन कीजिए।
2. पंजाब के प्राचीन इतिहास के स्रोतों को संक्षेप में लिखिए।

यूनिट–II

3. सिंधु घाटी के लोगों के सामाजिक और आर्थिक जीवन का वर्णन करें।
4. आर्यों के मूल निवास स्थान के बारे में विभिन्न सिद्धांतों का उल्लेख करें

यूनिट–III

5. वैदिक युग के सामाजिक और धार्मिक जीवन का विवरण दीजिए।
6. उत्तर वैदिक काल के आर्थिक एवं सामाजिक जीवन का विश्लेषण करें।

यूनिट–IV

7. महात्मा बुद्ध के जीवन और शिक्षाओं का वर्णन करें।

8. भगवान महावीर के जिंदगी और शिक्षाओं का वर्णन करें?

Paper Code: 1108

Programme	Exam Code	Course Code
Bachelor of Arts	121201	BARL-1431
Bachelor of Science (Non-Medical)	121301	BSNL-1431
Bachelor of Science (Medical)		BSML-1431
Bachelor of Science (Economics)		BECL-1431
Bachelor of Science (Computer Science)		BCSL-1431
Bachelor of Commerce	121101	BCRL-1431
Bachelor of Business Administration	121701	BBRL-1431
Bachelor of Arts (Journalism and Mass Communication)	116401	BJML-1431
Bachelor of Science (Fashion Designing)	119601	BFDL-1431
Bachelor of Science (Home Science)	119701	BHSL-1431
Bachelor of Computer Applications	117901	BCAL-1431
Bachelor of Science (Information Technology)	118001	BITL-1431
Bachelor of Science (Bio-Technology)	120601	BBTL-1431

Semester-I

Course Title: Punjab History and Culture

(50)

Time Allowed: 3 Hours   **Max Marks: 80**

Instructions

Attempt 5 questions in 1000 words, by atleast selecting One Question from each Unit and the 5th question may be attempted from any of the four Units   Each question will carry 16 marks.

Unit-I

1. Describe the Physical Features of Punjab.

2. Briefly write the Sources of the ancient History of Punjab.

Unit-II

3. Describe the Social and economic life of people of Indus Valley People.

4. Mention the various theories about the original home of the Aryans.

Unit-III

5. Give an account of the social and religious life of Vedic Age.

6. Analysis the Economic and Social life of Later Vedic Period.

Unit-IV

7. Describe the life and teachings of Mahatma Buddha.

8. Explain the life and teachings of Lord Mahavira?

Hindi Version

यूनिट–I

1. पंजाब की भौतिक विशेषताओं का वर्णन कीजिए।
2. पंजाब के प्राचीन इतिहास के स्रोतो को संक्षेप में लिखिए।

यूनिट–II

3. सिंधु घाटी के लोगों के सामाजिक और आर्थिक जीवन का वर्णन करें।
4. आर्यों के मूल निवास स्थान के बारे में विभिन्न सिद्धांतों का उल्लेख करें

यूनिट–III

5. वैदिक युग के सामाजिक और धार्मिक जीवन का विवरण दीजिए।
6. उत्तर वैदिक काल के आर्थिक एवं सामाजिक जीवन का विश्लेषण करें।

यूनिट–IV

7. महात्मा बुद्ध के जीवन और शिक्षाओं का वर्णन करें।

8. भगवान महावीर के जिंदगी और शिक्षाओं का वर्णन करें?

Exam Code: 121201   Paper Code: 1138

Programme: Bachelor of Arts (Semester: 1)

Course Title: Sociology (Fundamentals of Sociology-I)

Course Code: BARL-1475

Time Allowed: 3 Hours   **Max Marks: 80**

Note: Attempt five questions in all, selecting atleast one question from each section. The fifth question may be attempted from any section. Each question carries 16 marks.

Section-A

1. Define Sociology? Discuss the importance of Sociology in the modern world. Also discuss the assumptions of Formal school of thought?

ਸਮਾਜ ਸ਼ਾਸਤਰ ਦੀ ਪਰਿਭਾਸ਼ਾ ਦਿਓ? ਆਧੁਨਿਕ ਸੰਸਾਰ ਵਿੱਚ ਸਮਾਜ ਸ਼ਾਸਤਰ ਦੀ ਮਹੱਤਤਾ ਬਾਰੇ ਚਰਚਾ ਕਰੋ। ਵਿਚਾਰਧਾਰਾ ਦੇ ਰਸਮੀ ਸਕੂਲਦੀਆਂ ਧਾਰਨਾਵਾਂ ਬਾਰੇ ਵੀ ਚਰਚਾ ਕਰੋ?

समाजशास्त्र को परिभाषित करें? आधुनिक विश्व में समाजशास्त्र के महत्व पर चर्चा करें। औपचारिक विचारधारा की मान्यताओं पर भी चर्चा करें?

2. How is Sociology related to Psychology?

ਸਮਾਜ ਸ਼ਾਸਤਰ ਮਨੋਵਿਗਿਆਨ ਨਾਲ ਕਿਵੇਂ ਸਬੰਧਤ ਹੈ?

समाजशास्त्र मनोविज्ञान से किस प्रकार संबंधित है?

Section-B

3. Define Society? Discuss characteristics of society?

ਸਮਾਜ ਨੂੰ ਪਰਿਭਾਸ਼ਿਤ ਕਰੋ? ਸਮਾਜ ਦੀਆਂ ਵਿਸ਼ੇਸ਼ਤਾਵਾਂ ਬਾਰੇ ਚਰਚਾ ਕਰੋ?

समाज को परिभाषित करें? समाज की विशेषताओं पर चर्चा करें?

4. Give the main differences between Society and Association?

ਸੋਸਾਇਟੀ ਅਤੇ ਐਸੋਸੀਏਸ਼ਨ ਵਿਚਕਾਰ ਮੁੱਖ ਅੰਤਰ ਦੱਸੋ?

समाज और संघ के बीच मुख्य अंतर बताएं?

Section-C

5. What are social groups? Discuss its features?

ਸਮਾਜਿਕ ਸਮੂਹ ਕੀ ਹਨ? ਇਸ ਦੀਆਂ ਵਿਸ਼ੇਸ਼ਤਾਵਾਂ ਬਾਰੇ ਚਰਚਾ ਕਰੋ?

सामाजिक समूह क्या हैं? इसकी विशेषताओं पर चर्चा करें?

6. What are the features and importance of Primary Groups?

ਪ੍ਰਾਇਮਰੀ ਸਮੂਹਾਂ ਦੀਆਂ ਵਿਸ਼ੇਸ਼ਤਾਵਾਂ ਅਤੇ ਮਹੱਤਵ ਕੀ ਹਨ?

प्राथमिक समूहों की विशेषताएँ एवं महत्व क्या हैं?

Section-D

7. Define Social Structure? What are the elements of social structure?

ਸਮਾਜਿਕ ਢਾਂਚੇ ਨੂੰ ਪਰਿਭਾਸ਼ਿਤ ਕਰੋ? ਸਮਾਜਿਕ ਢਾਂਚੇ ਦੇ ਤੱਤ ਕੀ ਹਨ?

सामाजिक संरचना को परिभाषित करें? सामाजिक संरचना के तत्व क्या हैं?

8. What are the types of status? Discuss the relationship between both?

ਸਥਿਤੀ ਦੀਆਂ ਕਿਸਮਾਂ ਕੀ ਹਨ। ਦੋਵਾਂ ਦੇ ਸਬੰਧਾਂ ਬਾਰੇ ਚਰਚਾ ਕਰੋ?

स्टेटस कितने प्रकार के होते हैं? दोनों के रिश्ते पर चर्चा?

For Reappear Candidates (Old Syllabus (2022-23))

Exam Code: 121 201

Paper Code: 9108

Programme: Bachelor of Arts (Semester-I)
Course Title: Sociology (Fundamentals of Sociology -I)
Course Code: BARL-1475

Time Allowed: 3 Hours

Max Marks: 80

Note: Attempt five questions in all, selecting atleast one question from each Section fifth question can be attempted from any section. Each question carries equal (16) marks each.

Section-A

1. Define Sociology? Discuss the Formal school of thought?

   ਸਮਾਜ ਸ਼ਾਸਤਰ ਦੀ ਪਰਿਭਾਸ਼ਾ ਦਿਓ? ਵਿਚਾਰ ਦੇ ਰਸਮੀ ਸਕੂਲ ਬਾਰੇ ਚਰਚਾ ਕਰੋ?

2. How is Sociology related to Psychology?

   ਸਮਾਜ ਸ਼ਾਸਤਰ ਮਨੋਵਿਗਿਆਨ ਨਾਲ ਕਿਵੇਂ ਸਬੰਧਤ ਹੈ?

Section-B

3. Define Society? Discuss the characteristics of society?

   ਸਮਾਜ ਨੂੰ ਪਰਿਭਾਸ਼ਿਤ ਕਰੋ? ਸਮਾਜ ਦੀਆਂ ਵਿਸ਼ੇਸ਼ਤਾਵਾਂ ਬਾਰੇ ਚਰਚਾ ਕਰੋ?

4. What do you mean by Association. Explain its characteristics?

   ਐਸੋਸੀਏਸ਼ਨ ਤੋਂ ਤੁਹਾਡਾ ਕੀ ਮਤਲਬ ਹੈ। ਇਸ ਦੀਆਂ ਵਿਸ਼ੇਸ਼ਤਾਵਾਂ ਬਾਰੇ ਦੱਸੋ?

Section-C

5. Define social groups? What are its characteristics?

   ਸਮਾਜਿਕ ਸਮੂਹਾਂ ਨੂੰ ਪਰਿਭਾਸ਼ਿਤ ਕਰੋ? ਇਸ ਦੀਆਂ ਵਿਸ਼ੇਸ਼ਤਾਵਾਂ ਕੀ ਹਨ?

6. What are the features and importance of Secondary Groups?

   ਸੈਕੰਡਰੀ ਸਮੂਹਾਂ ਦੀਆਂ ਵਿਸ਼ੇਸ਼ਤਾਵਾਂ ਅਤੇ ਮਹੱਤਵ ਕੀ ਹਨ?

Section-D

9. Define Social Structure? What are the elements of social structure?

   ਸਮਾਜਿਕ ਢਾਂਚੇ ਨੂੰ ਪਰਿਭਾਸ਼ਿਤ ਕਰੋ? ਸਮਾਜਿਕ ਢਾਂਚੇ ਦੇ ਤੱਤ ਕੀ ਹਨ?

10. Discuss the types of status. Also explain difference between both?

    ਸਥਿਤੀ ਦੀਆਂ ਕਿਸਮਾਂ 'ਤੇ ਚਰਚਾ ਕਰੋ। ਦੋਨਾਂ ਵਿੱਚ ਅੰਤਰ ਵੀ ਸਮਝਾਓ?

5*16=80

2123

20

Paper Code: 1121

Programme	Exam Code	Course Code
Bachelor of Arts	121201	BARM-1124
Bachelor of Science (Economics)	121301	BECM-1124

Semester-I
Course Title: Computer Applications (Vocational)
(Computer Fundamentals and PC Software)
(40)

Time Allowed: 3 Hours   Max Marks: 50

Note: Attempt five questions, selecting one question from each section. The fifth question may be attempted from any section. All questions carry equal marks.

(Section A)

1. Explain various applications of computer system.

(10)

2. a) What is interpreter? How it works? What are its merits and demerits?

   b) What do you mean by operating system?

(2X5=10)

2123   Page 1

(Section B)

3. Explain various input devices in detail. (10)

4. a) What is compact disk? How it operates?
   b) Explain the working of dot-matrix printer.

   (2X5= 10)

(Section C)

5. Explain various components of a word processor window in detail. (10)

6. a) Explain spell and grammar checking feature of word processor.
   b) What do you mean by template? Explain.

   (2X5=10)

(Section D)

7. Explain various layouts of a slide available in the presentation software in detail. (10)

8. a) What do you mean by animation? How it is applied to the content of a slide?
   b) How a chart is added into the slide? (2X5=10)

Exam Code: 121201   Paper Code: 9101

Bachelor of Arts (Semester-I)

Course Title: Computer Applications (Vocational) Computer Fundamentals and PC Software

Course Code: BARM-1124

TIME: 3HRS.   MAX. MARKS: 50

NOTE: - Attempt five questions in all selecting at least one question from each section, fifth question may be attempted from any section. Each questions carries equal (10) marks.

Section-A

Q1:- What is the use of computer? How the data is processed in it? What is the necessity to process the data?
(10)

Q2:- Discuss in detail the evolution of computer system.   (10)

Section-B

Q3:- Explain the working of one input device and one output device.   (10)

Q4:-What is the difference between primary memory and secondary memory? Explain the working of hard disk.   (10)

Section-C

Q5:- What are the tables in MS Word? What are the different options available with table in MS Word?
(10)

Q6:- Explain the following: (3, 4, 3)

   a) Watermark
   b) Boarder and Shading
   c) Spell checker

Section-D

Q7:- What is view in power point? Explain different views available in Power Point Presentation.
(10)

Q8:-What are the various steps of creating and saving a presentation in MS-PowerPoint?   (10)

2123   20

Paper Code: 1120

Programme	Exam Code	Course Code
Bachelor of Arts	121201	BARM-1134
Bachelor of Science (Economics)	121301	BECM-1134
Bachelor of Science (Computer Science)	121301	BCSM-1134

Semester-I

Course Title: Computer Science (Computer Fundamentals and PC Software)

(50)

Time Allowed: 3 Hours   **Max Marks: 50**

Note: Attempt five questions, selecting one question from each section. The fifth question may be attempted from any section. All questions carry equal marks.

(Section A)

1. a) What do you mean by application software? How it is different from system software?

   b) What is booting? Explain its types.   (2X5=10)

2. Explain the block structure of a computer system.

        (10)

(Section B)

3. a) What is DRAM? How it is different from SRAM?
   b) Differentiate between RAM and ROM.   (2X5=10)
4. a) What is taskbar? Explain its components along with its context menu.
   b) Explain the working of inkjet printer.   (2X5=10)

(Section C)

5. a) How a document is saved in word processor? How Save is different from Save As?
   b) What is format painter? How it is used?

                                             (2X5=10)
6. a) What do you mean by header and footer in word processor? Explain in detail.
   b) Explain page margins in a document.   (2X5=10)

(Section D)

7. Explain various components of presentation software window in detail.   (10)
8. a) What do you mean by slideshow? What is the shortcut key for it?
   b) Explain the use of slide sorter view.   (2X5=10)

[NSB] [EVE] 13-12-2023

Exam Code: 121201   Paper Code: 1148
        (30)

Programme: Bachelor of Arts Semester-I

Course Title: Cosmetology (Vocational)

Course Code: BARM-1147

Time Allowed: 3 Hours   Max Marks: 40

Note:- Students are required to attempt five questions in all, selecting at least one question from each section. Each question carries 8 marks.

Section-A

1. What is Cosmetology? Why is cosmetology important?
(8)

2. Explain cosmetology along with its major objectives.
(8)

Section-B

3. Why is skin important to us? Explain the various types of skin. (8)

4. Explain the Structure of skin with the help of labelled diagram. (8)

Section-C

5. What do you mean by Personal Hygiene? (8)
6. Explain :-
   i) Care of Mouth
   ii) Teeth, ear
   iii) Removing body hair
   iv) Care of Hair (8)

Section-D

7. What is the role of pressure points in massaging? (8)
8. Describe facial muscles & also write the benefits of massage? (8)

Exam Code: 121201　　　　　　　　Paper Code: 1142

Bachelor of Arts (Semester-I)

Course Title: Indian Classical Dance (Kathak)

Course Code: BARM-1156

Time Allowed: 3 Hours　　　　　　　　Max Marks: 40

Note: Candidates are required to attempt five questions in all, selecting atleast one question from each section. The fifth question may be attempted from any Section. Each question carries 8 marks.

Section-A

1. Define Amad, Salami, Paran or Theka?
2. Explain brief history of Kathak Dance?

Section-B

3. What is Rasa and explain their importance in kathak Dance?
4. Explain any 10 Asanyukta Hasta Mudras?

Section-C

5. Give discription of teentaal with their ekgun, dugun, Chougun Laykaries?
6. Explain folk dance of Punjab?

Section-D

7. Comparative study of Roopak Taal and Kehrva Taal?
8. Give notation of one Tora and one Tehai with defination?

(HINDI VERSION)

नोट: प्रत्येक अनुभाग से कम से कम एक प्रश्न का चयन करते हुए, कुल पाँच प्रश्न करें। पांचवें प्रश्न को किसी भी अनुभाग से किया जा सकता है। प्रत्येक प्रश्न 8 अंक का है।

Section-A

1. आमद, सलामी, परन और ठेका को परिभाषित करें?
2. कथक नृत्य का संक्षिप्त इतिहास बताएं?

Section-B

3. रस क्या है और कथक नृत्य में उसका महत्व बताऐं?

4. किन्हीं 10 असंयुक्त हस्त मुद्राओं की व्याख्या करें?

Section-C

5. तीनताल की व्याख्या करे और उनके एकगुन, दुगुन और चौगुन लयकारी के साथ विवरण दें?

6. पंजाब के लोक नृत्य की व्याख्या करें?

Section-D

7. रूपक ताल एवं केहरवा ताल का तुलनात्मक अध्ययन करे?

8. तीन ताल में एक तोड़ा और एक तिहाई को लिखे परिभाषा सहित?

(PUNJABI VERSION)

ਨੋਟ : ਹਰੇਕ ਸੈਕਸ਼ਨ ਵਿੱਚੋਂ ਘੱਟੋ ਘੱਟ ਇੱਕ ਸਵਾਲ ਚੁਣ ਕੇ, ਕੁੱਲ ਪੰਜ ਸਵਾਲ ਕਰੋ। ਪੰਜਵਾਂ ਸਵਾਲ ਕਿਸੇ ਵੀ ਸੈਕਸ਼ਨ ਤੋਂ ਕੀਤਾ ਜਾ ਸਕਦਾ ਹੈ। ਹਰੇਕ ਸਵਾਲ ਵਿੱਚ 8 ਅੰਕ ਹਨ।

Section-A

1. ਆਗਦ, ਸਭਾਗੀ, ਪਰਨ ਅਤੇ ਠੇਕਾ ਨੂੰ ਪਰਿਭਾਸ਼ਿਤ ਕਰੋ?

2. ਕੱਥਕ ਨ੍ਰਿਤ ਦਾ ਸੰਖ਼ਿਪ ਇਤਿਹਾਸ ਦੱਸੋ?

Section-B

3. ਰਸ ਕੀ ਹੈ ਅਤੇ ਕੱਥਕ ਵਿਚ ਇਸਦੀ ਮਹੱਤਤਾ ਨੂੰ ਸਮਝਾਓ?

4. ਕਿਸੇ ਵੀ 10 ਅਸਮਪੂਕਤ ਹਸਤ ਮੁਦਰਾ ਬਾਰੇ ਦੱਸੋ?

Section-C

5. ਤਿੰਨ ਤਾਲ ਦੀ ਵਿਆਖਿਆ ਕਰੋ ਅਤੇ ਉਹਨਾਂ ਦੇ ਏਕਗੁਣ, ਦੁਗੁਣ ਅਤੇ ਚੰਗੁਣ ਲਯਕਾਰੀ ਸਮੇਤ ਵਰਣਨ ਦਿਓ?

6. ਪੰਜਾਬ ਦੇ ਲੋਕਨਾਚ ਦੀ ਵਿਆਖਿਆ ਕਰੋ?

Section-D

7. ਰੁਪਕ ਤਾਲ ਅਤੇ ਕੇਹਰਵਾ ਤਾਲ ਦਾ ਤੁਲਨਾਤਮਕ ਅਧਿਐਨ ਕਰੋ?

8. ਤਿੰਨ ਤਾਲਾਂ ਵਿੱਚ ਇੱਕ ਤੋੜਾ ਅਤੇ ਇੱਕ ਤਿਹਾਈ ਪਰਿਭਾਸ਼ਾ ਸਮੇਤ ਲਿਖੋ ?

Exam Code: 121201   Paper Code: 1147

(20)

Programme: Bachelor of Arts Semester-I

Course Title: Fashion Designing and Garment Construction (Vocational) (Fashion Designing-I)

Course Code: BARM-1237

Time Allowed: 3 Hours   Max Marks: 30

NOTE—Attempt five questions, All questions carry equal marks (6 marks), Selecting at least one question from each section. The fifth question may be attempted from any section.

Section-A

1. Explain in detail about classic fashion, Fashion and fashion trends? (3x2)

2. Explain the following Fashion Terminology-
   (i) Fad
   (ii) Prêt-a porter
   (iii) Mass production (3x2)

Section-B

3. What is fashion cycle? Explain it's different stages? 6

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4. Describe Factors affecting Fashion cycle?   6

Section-C

5. Explain in detail about two Theories of fashion adoption:-Trickle down and bottom up theory?   6
6. Give brief introduction about Origin of fashion?   6

Section-D

7. Illustrate and explain colour Wheel, tints & shades with examples?   6
8. Explain different types of textures in detail with examples?   6

Exam Code: **121201**   Paper Code: 1139
    (30)

Programme: Bachelor of Arts Semester-1

Course Title: Fine Arts (Drawing and Painting)

Course Code: BARM-1245

Time Allowed: 3 Hours   **Max Marks: 40**

Note: Attempt five out of eight questions, one question from each section is compulsory. The fifth question can be done from any-unit. Each question carries 8 marks.

SECTION A

1. Explain Pre- Historic art period.
2. Explain six limbs of Indian art.

SECTION B

3. Explain Elements of art.
4. Explain Principles of art.

SECTION C

5. Explain sculpture of Indus valley. Dancing Girl, Mother Goddess.
6. Write a note on sculpture of Indus valley. Priest, Mother Goddess.

SECTION D

7. What do you know about Ajanta Paintings? Explain any one painting.
8. Explain Mother and child before Budhha and Dying Princess.

Punjabi Version

Attempt five out of eight questions, one question from each section is compulsory. The fifth question can be attempted from any section. Each question carries 8 marks.

ਸੈਕਸ਼ਨ-ਏ

1. ਪੁਰਵ-ਇਤਿਹਾਸਕ ਕਲਾ ਕਾਲ ਦੀ ਵਿਆਖਿਆ ਕਰੋ।
2. ਭਾਰਤੀ ਕਲਾ ਦੇ ਛੇ ਅੰਗਾਂ ਦੀ ਵਿਆਖਿਆ ਕਰੋ।

ਸੈਕਸ਼ਨ-ਬੀ

3. ਕਲਾ ਦੇ ਤੱਤਾਂ ਦੀ ਵਿਆਖਿਆ ਕਰੋ।
4. ਕਲਾ ਦੇ ਸਿਧਾਂਤਾਂ ਦੀ ਵਿਆਖਿਆ ਕਰੋ।

ਸੈਕਸ਼ਨ-ਸੀ

5. ਸਿੰਧੂ ਘਾਟੀ ਦੀ ਮੂਰਤੀ ਦੀ ਵਿਆਖਿਆ ਕਰੋ। ਨੱਚਣ ਵਾਲੀ ਕੁੜੀ, ਮਾਤਾ ਦੇਵੀ
6. ਸਿੰਧੂ ਘਾਟੀ ਦੀ ਮੂਰਤੀ ਉੱਤੇ ਇੱਕ ਨੋਟ ਲਿਖੋ। ਪੁਜਾਰੀ, ਮਾਤਾ ਦੇਵੀ

ਸੈਕਸ਼ਨ–ਡੀ

7. ਤੁਸੀਂ ਅਜੰਤਾ ਪੇਟਿੰਗਜ਼ ਬਾਰੇ ਕੀ ਜਾਣਦੇ ਹੋ? ਕਿਸੇ ਇੱਕ ਪੇਂਟਿੰਗ ਦੀ ਵਿਆਖਿਆ ਕਰੋ।

8. ਬੁੱਧਾ ਅਤੇ ਮਰਨ ਵਾਲੀ ਰਾਜਮੁਕਾਰੀ ਤੋਂ ਪਹਿਲਾਂ ਮਾਂ ਅਤੇ ਬੱਚੇ ਨੂੰ ਸਮਝਾਓ।

$$8 \times 5 = 40$$

For Reappear Candidates (Old Syllabus (2020-21))

Exam Code- 121201   Paper Code: 9111

Bachelor of Arts, Semester-1

Course Title- Hindi (Elective) (Hindi Bhasha aur Sahitya Ka Itihaas)

Course Code: BARM-1268

समय : 3 घन्टे   कुल अंक :60

नोट : यह प्रश्नपत्र चार भागों में विभाजित है। प्रश्नपत्र की इकाई एक,दो,तीन और चार में दिए गए प्रश्नों में से विद्यार्थियों को एक –एक प्रश्न करना होगा। पांचवां प्रश्न विद्यार्थी किसी भी भाग में से कर सकता है। सभी प्रश्न 12-12 अंकों के हैं।

भाग –क

1. हिंदी भाषा उद्भव बताएं

2. लौकिक साहित्य का सामान्य परिचय दें

भाग-ख

3. भक्तिकाल की परिस्थितियां बताएं।

4. संत काव्यधारा की विशेषताएं बताएं।

भाग –ग

5. रीतिकाल की परिस्थितियां बताएं ।

6. रीतिमुक्त काव्यधारा की प्रवृतियां बताएं ।

भाग-घ

7. भारतेंदु युग की विशेषताएं बताएं

8. आधुनिक गद्य का सामान्य परिचय दें

                                  12x5=60

Exam Code: 121201   Paper Code: 1151
(40)

Programme: Bachelor of Arts
Semester-1

Course Title: Hindi (Elective) (Hindi Sahitya Ka Itihaas)

Course Code: BARM-1268

Time Allowed: 3 Hours   Max Marks: 60

नोट : यह प्रश्नपत्र चार भागों में विभाजित है। प्रश्नपत्र की इकाई एक,दो, तीन और चार में दिए गए प्रश्नों में से विद्यार्थियों को एक–एक प्रश्न करना होगा। पांचवां प्रश्न विद्यार्थी किसी भी भाग में से कर सकता है। सभी प्रश्न 12–12 अंकों के हैं।

भाग –क

1.   आदिकाल की प्रमुख विशेषताएं बताएं।

2.   आदिकाल का लौकिक काव्यधारा का परिचय दें ।

भाग–ख

3.   संत काव्यधारा की विशेषताएं स्पष्ट करें ।

4.   राम काव्यधारा की विशेषताएं स्पष्ट करें ।

भाग –ग

5. रीतिकाल की प्रमुख प्रवृत्तियों पर प्रकाश डालें ।

6. रीतिमुक्त काव्यधारा की प्रवृत्तियों पर प्रकाश डालें ।

भाग–घ

7. आधुनिक काल की प्रमुख प्रवृत्तियां लिखें ।

8. भारतेंदु युग की विशेषताएं लिखें ।

12x5–60

Exam Code: **121201**   Paper Code: 1136
                    (30)

Programme: Bachelor of Arts Semester-I

Course Title: Home Science (Family Resource Management
                    and Hygiene)

Course Code: BARM-1284

Time Allowed: 3 Hours   Max Marks: 60

Students are required to attempt five questions in all,
selecting at least one question from each section. The fifth
question may be attempted from any section. Each question
carries 12 marks.

SECTION A

1. Home is a place where physiological and psychological
   desires are justified. Explain in detail.
2. What do you mean by owning a house? Write
   advantages and disadvantages of owning a house.

SECTION B

3. What are the different elements of art. Discuss
4. Discuss various color schemes in detail.

SECTION C

5. Discuss the different types of immunity. Write the immunization schedules in detail.

6. Write the causes, symptoms and preventive measures to control AIDS.

SECTION D

7. What is food poisoning? Write the methods of prevention of Food Poisoning.

8. Write about the domestic purification of Water through aquaguard.

Punjabi Version

Candidate shall attempt 5 questions selecting at least one question from each section and the 5th question may be attempted from any section. Each question is of 12 marks.

ਸੈਕਸ਼ਨ–ਏ

1. ਘਰ ਇੱਕ ਅਜਿਹੀ ਥਾਂ ਹੈ ਜਿੱਥੇ ਸਰੀਰਕ ਅਤੇ ਮਨੋਵਿਗਿਆਨਕ ਇੱਛਾਵਾਂ ਜਾਇਜ਼ ਹੁੰਦੀਆਂ ਹਨ। ਵਿਸਥਾਰ ਵਿੱਚ ਸਮਝਾਓ।
2. ਘਰ ਦੇ ਮਾਲਕ ਹੋਣ ਦਾ ਕੀ ਮਤਲਬ ਹੈ? ਘਰ ਦੇ ਮਾਲਕ ਹੋਣ ਦੇ ਫਾਇਦੇ ਅਤੇ ਨੁਕਸਾਨ ਲਿਖੋ।

ਸੈਕਸ਼ਨ–ਬੀ

3. ਕਲਾ ਦੇ ਵੱਖ-ਵੱਖ ਤੱਤ ਕੀ ਹਨ। ਚਰਚਾ ਕਰੋ।
4. ਵੱਖ-ਵੱਖ ਰੰਗ ਸਕੀਮਾਂ ਬਾਰੇ ਵਿਸਥਾਰ ਵਿੱਚ ਚਰਚਾ ਕਰੋ।

ਸੈਕਸ਼ਨ–ਸੀ

5. ਇਮਿਊਨਿਟੀ ਦੀਆਂ ਵੱਖ-ਵੱਖ ਕਿਸਮਾਂ 'ਤੇ ਚਰਚਾ ਕਰੋ। ਇਮਯੂਨਾਈਜ਼ੇਸ਼ਨ ਦੇ ਕਾਰਜਕ੍ਰਮ ਨੂੰ ਵਿਸਥਾਰ ਵਿੱਚ ਲਿਖੋ।
6. ਏਡਜ਼ ਨੂੰ ਕੰਟਰੋਲ ਕਰਨ ਲਈ ਕਾਰਨ, ਲੱਛਣ ਅਤੇ ਰੋਕਥਾਮ ਦੇ ਉਪਾਅ ਲਿਖੋ।

ਸੈਕਸ਼ਨ-ਡੀ

7. ਭੋਜਨ ਜ਼ਹਿਰ ਕੀ ਹੈ? ਫੂਡ ਪੋਇਜ਼ਨਿੰਗ ਦੀ ਰੋਕਥਾਮ ਦੇ ਤਰੀਕੇ ਲਿਖੋ।

8. ਐਕੁਆਗਾਰਡ ਰਾਹੀਂ ਪਾਣੀ ਦੀ ਘਰੇਲੂ ਸ਼ੁੱਧਤਾ ਬਾਰੇ ਲਿਖੋ।

Hindi Version

Candidate shall attempt 5 questions selecting at least one
question from each section and the 5th question may be
attempted from any section. Each question is of 12 marks.

सैक्शन—ए

1. घर एक ऐसा स्थान है जहां शारीरिक और मनोविज्ञानिक इच्छाएं न्यायोचित होती हैं। विस्तार से स्पष्ट करें।
2. घर के मालिक होने का क्या मतलब है? घर के मालिक होने के लाभ और हानियां बताएं।

सैक्शन—बी

3. कला के अलग-अलग तत्व क्या हैं। चर्चा करें।
4. अलग-अलग रंग स्कीमों के बारे में विस्तार से चर्चा करें।

सैक्शन—सी

5. इम्यूनिटी की अलग-अलग प्रकार पर चर्चा करें। इम्यूनाईजेशन के कार्यक्रम को विस्तार से लिखें।
6. एड्स को कंट्रोल करने के लिए कारण, लक्षण और रोकथाम के उपाए लिखें।

सैक्शन—डी

7. भोजन ज़हर क्या है? फूड पॉइजनिंग की रोकथाम के तरीके लिखें।
8. एकवागार्ड के द्वारा पानी की घरेलू शुद्धता के बारे में लिखो।

KMV-II (NSB) 6-12-2023

Exam Code: 121201   Paper Code: 1134
(30)

Programme: Bachelor of Arts Semester-I

Course Title: Journalism and Mass Communications
(Vocational)

Course Code: BARM-1313

Time Allowed: 3 Hours   Max Marks: 60

Note: Attempt five questions in all, selecting at least one question from each section. The fifth question may be attempted from any section. Each question carries 12 marks.

Section-I

1. Define the Concept of Communication and also explain its important Functions.
2. Which are the various Types of Communication? Explain with suitable examples

Section-II

3. Discuss 7C's of Communication with their significance.
4. Write a detailed note on Barriers to Communication.

Section-III

5. Write a Detailed note on Lasswell's Model of Communication.
6. Explain the elements of Communication Shown in Berlo's Model

Section-IV

7. Discuss Magic Bullet Theory
8. Explain Two Step Flow and Multi Step Flow in detail

Paper Code: 1118

Programme	Exam Code	Course Code
Bachelor of Arts	121201	BARM-1333 (I)
Bachelor of Science (Non-Medical)	121301	BSNM-1333 (I)
Bachelor of Science (Economics)		BECM-1333 (I)
Bachelor of Science (Computer Science)		BCSM-1333 (I)

Course Title: Mathematics (Algebra)
Semester-I
(50)

Time Allowed: 3 Hours   Max Marks: 80

Note: Attempt five questions in all, selecting at least one question from each section. The fifth question may be attempted from any section. Each question carries 16 marks.

Section-A

1(a) Find two non-singular matrices P and Q such that PAQ is in normal form where

$$A = \begin{bmatrix} 1 & -1 & 2 & -1 \\ 4 & 2 & -1 & 2 \\ 2 & 2 & -2 & 0 \end{bmatrix}$$. Also determine the rank of A.

(b) Examine for linear independence or dependence of the system of vectors:

$$(2, -1, 3) , (8, 2, 0) \text{ and } (0, 1, -2).$$ (8,8)

2(a) Find the values of λ and μ for which the system of equations

$$x + y + z = 6, \quad x + 2y + 3z = 10, \quad x + 2y + \lambda z = \mu \quad \text{has}$$

i)   Unique solution
ii)   No solution
iii)   Infinite number of solutions

2(b) Prove that the multiplication of the elements of a row of a given matrix by a non-zero number does not alter the rank of the matrix.   (8,8)

Section-B

3(a) Define Hermitian Matrix. Prove that the characteristic roots of a Hermitian matrix are real.

(b) Find eigen values and corresponding eigen vectors of a matrix $A = \begin{bmatrix} 8 & -6 & 2 \\ -6 & 7 & -4 \\ 2 & -4 & 3 \end{bmatrix}$

(8,8)

4(a) If $P = \begin{bmatrix} 5 & -6 & -6 \\ -1 & 4 & 2 \\ 3 & -6 & -4 \end{bmatrix}$, find the minimal polynomial of P. Also find P^{-1}, using the minimal polynomial.

(b) What do you mean by Quadratic Form. Write down the Quadratic form corresponding to the symmetric matrix $\begin{bmatrix} 2 & 1 & 5 \\ 1 & 3 & -2 \\ 5 & -2 & 4 \end{bmatrix}$

(8,8)

Section-C

5(a) What do you understand by congruence of matrices. Show that a non-singular symmetric matrix is congruent to its inverse.

(b) Reduce the following quadratic form to sum of squares by a linear transformation. Also find its rank, index, and signature: $10x^2 + y^2 + z^2 - 6xy - 2yz + 6zx$

(8,8)

6(a) Show that the quadratic form $x^2 + y^2 + 7z^2 - 16xy - 8yz - 8zx$ in three variables is indefinite and find the set of values of the variables for which it assumes positive, negative and zero values.

(b) Define Gram Matrix. Prove that every real positive definite or semi definite matrix can be represented as a gram matrix.

(8,8)

Section-D

7(a) Solve using Cardon Method: $35x^3 + 18x^2 - 1 = 0$

(b) Use Descarte's method to solve the biquadratic: $x^4 - 10x^3 + 35x^2 - 50x + 24 = 0$

(8,8)

8(a) Find the condition that the roots of the equation $ax^3 + 3bx^2 + 3cx + d = 0$ $(a \neq 0, d \neq 0)$ may be in G.P. Hence solve the equation $27x^3 + 42x^2 - 28x - 8 = 0$

(b) If α, β, γ are roots of $4x^3 - 12x^2 + 5x + 6 = 0$, then find the equation whose roots are

$$\alpha + \frac{1}{2}, \beta + \frac{1}{2}, \gamma + \frac{1}{2}. \text{ Solve the same.}$$

(8,8)

Programme	Exam Code	Course Code
Bachelor of Arts	121201	BARM-1333 (II)
Bachelor of Science (Non-Medical)	121301	BSNM-1333 (II)
Bachelor of Science (Economics)		BECM-1333 (II)
Bachelor of Science (Computer Science)		BCSM-1333 (II)

Semester-I

Course Title: Mathematics (Calculus and Trigonometry)

(50)

Time Allowed: 3 Hours   Max Marks: 60

Note: Attempt five questions in all, selecting at least one question from each section. The fifth question may be attempted from any section. Each question carries equal marks (i.e 12 marks for each question).

Section -A

Q 1.(a)   Find the solution set of $\left|\frac{x-3}{x+5}\right| > 2$.

Q 1.(b)   Prove that $\sqrt{2}$ is an irrational number.

Q 2.(a)   Evaluate $\lim_{x \to 0} \frac{\sin 2x + \sin 6x}{\sin 5x - \sin 3x}$.

Q 2.(b)   Show that the function $f(x) = x^3 + 1$ is uniformly continuous in $[0, 1]$.

Section -B

Q 3.(a)   Prove that $\frac{d^n}{dx^n}\left(\frac{\log x}{x}\right) = \frac{(-1)^n n!}{x^{n+1}}\left[\log x - 1 - \frac{1}{2} - \frac{1}{3} \cdots \cdots \cdots - \frac{1}{n}\right]$

Q 3.(b)   Differentiate $\sin^{-1}(\tanh x^2)$ w.r.t x.

Q 4.(a)   State Taylor's Theorem and use it to express $f(x) = 4x^3 - 5x^2 + 3x - 9$

in powers of (x-3).

Q 4.(b)   Evaluate $\lim_{x \to 0^+} (\cot x)^x$.

Section –C

Q 5.(a)   For $n \in Z$, prove that $(\sqrt{3} + i)^n + (\sqrt{3} - i)^n = 2^{n+1} \cos \frac{n\pi}{6}$.

Q 5.(b)   State De-moivre's Theorem and apply it to find an equation whose roots

are the nth powers of the roots of the equation $x^2 - 2x \cos \theta + 1 = 0$.

Q 6.(a)   Show that the roots of the equation $(1 + x)^{2n} + (1 - x)^{2n} = 0$ are given

by $\pm i \tan \frac{(2r-1)\pi}{4n}$ where $r = 1,2,3,\ldots\ldots n$.

Q 6.(b)   Prove that $\left(\frac{\cos \theta + i \sin \theta}{\sin \theta + i \cos \theta}\right)^4 = \cos 8\theta + i \sin 8\theta$.

Section -D

Q 7.(a)   If $i^{\alpha + i\beta} = \alpha + i\beta$, prove that $\alpha^2 + \beta^2 = e^{-(4n+1)\beta\pi}$.

Q 7.(b)   Split $e^{(6+5i)^2}$ into real and imaginary parts.

Q 8.(a)   If $\sin(u + iv) = (x + i y)$ then show that $\frac{x^2}{\cosh^2 v} + \frac{y^2}{\sinh^2 v} = 1$

Q8.(b)   Prove that $\frac{\pi}{8} = \frac{1}{1.3} + \frac{1}{5.7} + \frac{1}{9.11} + \cdots \ldots$

FOR REAPPEAR CANDIDATES (2019-20), (2020-21), (2021-22), (2022-23)

Paper Code: 9136

Programme	Exam Code	Course Code
Bachelor of Arts	113201	BARM-1333 (I)
Bachelor of Science (Non-Medical)	113301	BSNM-1333 (I)
Bachelor of Science (Economics)		BECM-1333 (I)
Bachelor of Science (Computer Science)		BCSM-1333 (I)

Course Title: Mathematics (Algebra)
Semester-I
(50)

Time Allowed: 3 Hours
Max Marks: 40

Note: Attempt five questions in all selecting at least one question from each section. The fifth question may be attempted from any section. Each question carries 8 marks.

Section-A

1(a) Find two non-singular matrices P and Q such that PAQ is in normal form where

$$A = \begin{bmatrix} 1 & -1 & 2 & -1 \\ 4 & 2 & -1 & 2 \\ 2 & 2 & -2 & 0 \end{bmatrix}.$$ Also determine the rank of A.

(b) Examine for linear independence or dependence of the system of vectors:

$$(2, -1, 3), \ (8, 2, 0) \text{ and } (0, 1, -2).$$ (4,4)

2(a) Find the values of λ and μ for which the system of equations

$$x + y + z = 6, \quad x + 2y + 3z = 10, \quad x + 2y + \lambda z = \mu \quad \text{has}$$

i)   Unique solution
ii)   No solution
iii)   Infinite number of solutions

2(b) Prove that the multiplication of the elements of a row of a given matrix by a non-zero number does not alter the rank of the matrix. (4,4)

Section-B

3(a) Define Hermitian Matrix. Prove that the characteristic roots of a Hermitian matrix are real.

(b) Find eigen values and corresponding eigen vectors of a matrix $A = \begin{bmatrix} 8 & -6 & 2 \\ -6 & 7 & -4 \\ 2 & -4 & 3 \end{bmatrix}$ (4,4)

4(a) If $P = \begin{bmatrix} 5 & -6 & -6 \\ -1 & 4 & 2 \\ 3 & -6 & -4 \end{bmatrix}$, find the minimal polynomial of P. Also find P^{-1}, using the minimal polynomial.

(b) What do you mean by Quadratic Form. Write down the Quadratic form corresponding to the symmetric matrix $\begin{bmatrix} 2 & 1 & 5 \\ 1 & 3 & -2 \\ 5 & -2 & 4 \end{bmatrix}$

(4,4)

Section-C

5(a) What do you understand by congruence of matrices. Show that a non-singular symmetric matrix is congruent to its inverse.

(b) Reduce the following quadratic form to sum of squares by a linear transformation. Also find its rank, index, and signature: $10x^2 + y^2 + z^2 - 6xy - 2yz + 6zx$

(4,4)

6(a) Show that the quadratic form $x^2 + y^2 + 7z^2 - 16xy - 8yz - 8zx$ in three variables is indefinite and find the set of values of the variables for which it assumes positive, negative and zero values.

(b) Define Gram Matrix. Prove that every real positive definite or semi definite matrix can be represented as a gram matrix.

(4,4)

Section-D

7(a) Solve using Cardon Method: $35x^3 + 18x^2 - 1 = 0$

(b) Use Descarte's method to solve the biquadratic: $x^4 - 10x^3 + 35x^2 - 50x + 24 = 0$

(4,4)

8(a) Find the condition that the roots of the equation $ax^3 + 3bx^2 + 3cx + d = 0$ ($a \neq 0, d \neq 0$) may be in G.P. Hence solve the equation $27x^3 + 42x^2 - 28x - 8 = 0$

(b) If α, β, γ are roots of $4x^3 - 12x^2 + 5x + 6 = 0$, then find the equation whose roots are

$$\alpha + \frac{1}{2}, \beta + \frac{1}{2}, \gamma + \frac{1}{2}.$$ Solve the same.

(4,4)

FOR REAPPEAR CANDIDATES (2019-20), (2020-21), (2021-22), (2022-23.)

Programme	Exam Code	Course Code
Bachelor of Arts	121201	BARM-1333 (II)
Bachelor of Science (Non-Medical)	121301	BSNM-1333 (II)
Bachelor of Science (Economics)		BECM-1333 (II)
Bachelor of Science (Computer Science)		BCSM-1333 (II)

Semester-I
Course Title: Mathematics (Calculus and Trigonometry)

Time Allowed: 3 Hours   **Max Marks: 60**

Note: Attempt five questions in all, selecting at least one question from each section. The fifth question may be attempted from any section. Each question carries equal marks (i.e 12 marks for each question).

Section -A

Q 1.(a)   Find the solution set of $\left|\frac{x-3}{x+5}\right| > 2$.

Q 1.(b)   Prove that $\sqrt{2}$ is an irrational number.

Q 2.(a)   · Evaluate $\lim_{x \to 0} \frac{\sin 2x + \sin 6x}{\sin 5x - \sin 3x}$.

Q 2.(b)   Show that the function $f(x) = x^3 + 1$ is uniformly continuous in $[0, 1]$.

Section -B

Q 3.(a)   Prove that $\frac{d^n}{dx^n}\left(\frac{\log x}{x}\right) = \frac{(-1)^n \, n!}{x^{n+1}}\left[\log x - 1 - \frac{1}{2} - \frac{1}{3} \cdots \cdots \cdots - \frac{1}{n}\right]$

2123

Q3.(b)   Differentiate $\sin^{-1}(\tanh x^2)$ w.r.t x.

Q4.(a)   State Taylor's Theorem and use it to express $f(x) = 4x^3 - 5x^2 + 3x - 9$ in powers of (x-3).

Q4.(b)   Evaluate $\lim_{x \to 0^+} (\cot x)^x$.

Section –C

Q5.(a)   For $n \in Z$, prove that $(\sqrt{3} + i)^n + (\sqrt{3} - i)^n = 2^{n+1} \cos\frac{n\pi}{6}$.

Q5.(b)   State De-moivre's Theorem and apply it to find an equation whose roots are the nth powers of the roots of the equation $x^2 - 2x \cos\theta + 1 = 0$.

Q6.(a)   Show that the roots of the equation $(1 + x)^{2n} + (1 - x)^{2n} = 0$ are given by $\pm i \tan\frac{(2r-1)\pi}{4n}$ where $r = 1,2,3,\ldots\ldots n$.

Q6.(b)   Prove that $\left(\frac{\cos\theta + i\sin\theta}{\sin\theta + i\cos\theta}\right)^4 = \cos 8\theta + i\sin 8\theta$.

Section -D

Q7.(a)   If $i^{\alpha + i\beta} = \alpha + i\beta$, prove that $\alpha^2 + \beta^2 = e^{-(4n+1)\beta\pi}$.

Q7.(b)   Split $e^{(6+5i)^2}$ into real and imaginary parts.

Q8.(a)   If $\sin(u + iv) = (x + iy)$ then show that $\frac{x^2}{\cosh^2 v} + \frac{y^2}{\sinh^2 v} = 1$

Q8.(b)   Prove that $\frac{\pi}{8} = \frac{1}{1.3} + \frac{1}{5.7} + \frac{1}{9.11} + \cdots \ldots$

Exam Code: 121201   Paper Code: 1146
(30)

Programme: Bachelor of Arts Semester-I

Course Title: Music (Instrumental)

Course Code: BARM-1357

Time Allowed: 3 Hours   Max Marks: 40

Note: Attempt five question in all, selecting at least one question from each section. Fifth question can be attempted from any section. Each question carries 8 marks.

SECTION-A

1. Explain thaat in detail.
2. Write down the definition of following Musical terms: Sangcet, Naad, Shruti, Alankar

SECTION-B

3. Define Rag and explain the jaties of ragas.
4. Define Music and Explain the types and importance of Music in human life.

SECTION-C

5. Write down the classification of Indian Musical instruments.
6. Write the contribution of Ustad Allaudin Khan or Pt, Ravi Shankar towards Indian Classical Music.

SECTION-D

7. Explain the following ragas in detail: Bhupali, Yaman.
8. Write down the ekgun and dugun of any one of the following talas: Dadra or Kehurva

Punjabi version

ਹਰੇਕ ਯੂਨਿਟ ਵਿੱਚੋਂ ਇਕ-ਇਕ ਪ੍ਰਸ਼ਨ ਚੁਣ ਕੇ ਕੁੱਲ ਪੰਜ ਪ੍ਰਸ਼ਨ ਦੀ ਕੋਸ਼ਿਸ਼ ਕਰੋ। ਪੰਜਵਾਂ ਪ੍ਰਸ਼ਨ ਕਿਸੇ ਵੀ ਯੂਨਿਟ ਤੋਂ ਕੀਤਾ ਜਾ ਸਕਦਾ ਹੈ। ਹਰੇਕ ਪ੍ਰਸ਼ਨ 8 ਨੰਬਰ ਦਾ ਹੈ।

ਯੂਨਿਟ-1

1. ਥਾਟ ਬਾਰੇ ਵਿਸਥਾਰ ਵਿੱਚ ਲਿਖੋ।
2. ਹੇਠ ਲਿਖੇ ਸੰਗੀਤਕ ਸ਼ਬਦਾਂ ਦੀ ਪਰਿਭਾਸ਼ਾ ਲਿਖੋ: ਸੰਗੀਤ, ਨਾਦ, ਸ਼ਰੁਤੀ, ਅਲੰਕਾਰ।

ਯੂਨਿਟ-2

3. ਰਾਗ ਦੀ ਪਰਿਭਾਸ਼ਾ ਦਿਓ ਅਤੇ ਰਾਗਾਂ ਦੀਆਂ ਜਾਤੀਆਂ ਦੀ ਵਿਆਖਿਆ ਕਰੋ।
4. ਸੰਗੀਤ ਦੀ ਪਰਿਭਾਸ਼ਾ ਦਿਓ ਅਤੇ ਸੰਗੀਤ ਦੀਆਂ ਕਿਸਮਾਂ ਦੀ ਵਿਆਖਿਆ ਕਰੋ।

ਯੂਨਿਟ-3

5. ਭਾਰਤੀ ਸੰਗੀਤ ਯੰਤਰਾਂ ਦਾ ਵਰਗੀਕਰਨ ਲਿਖੋ।
6. ਭਾਰਤੀ ਸ਼ਾਸਤਰੀ ਸੰਗੀਤ ਲਈ ਉਸਤਾਦ ਅਲਾਉਦੀਨ ਖਾਨ ਜਾਂ ਪੰਡਿਤ, ਰਵੀ ਸ਼ੰਕਰ ਦੇ ਯੋਗਦਾਨ ਨੂੰ ਲਿਖੋ।

ਯੂਨਿਟ–4

7. ਹੇਠਾਂ ਦਿੱਤੇ ਰਾਗਾਂ ਦੀ ਵਿਸਤਾਰ ਵਿੱਚ ਵਿਆਖਿਆ ਕਰੋ: ਭੂਪਾਲੀ, ਯਮਨ।

8. ਹੇਠ ਲਿਖੇ ਤਾਲਾਂ ਵਿੱਚੋਂ ਕਿਸੇ ਇੱਕ ਦਾ ਇਕਗੁਨ ਅਤੇ ਦੁਗੁਨ ਲਿਖੋ: ਦਾਦਰਾ, ਕੇਹਰਵਾ।

Exam Code: **121201**   Paper Code: 1143
        (20)

Programme: Bachelor of Arts Semester-I

Course Title: Music (Vocal)

Course Code: BARM-1366

Time Allowed: 3 Hours   Max Marks: 40

Note: Attempt five questions in all, selecting at least one question from each section. The fifth question may be attempted from any section. Each question carries 8 marks.

Section-A

1. Write down the Historical development of Indian music in vedic period.
2. Write down the definition of following Musical terms: Alankar, Aroh, Avroh, Pakar

Section-B

3. Write down the life sketch of Tansen.
4. What is Music and Explain the types of Music.

Section-C

5. Explain the following terms in Gurmat sangeet: Raag, Rahao, Mohalla.
6. Write the Notation of Rag Bhairav in detail.

Section-D

7. Explain the following Non detail Ragas: Deshkar, Khmaaj.
8. Write down the ekgun and dugun of any one of the following talas: Kehurva or, Teental

Punjabi Version

ਨੋਟ: ਹਰੇਕ ਯੂਨਿਟ ਵਿੱਚੋਂ ਇੱਕ ਪ੍ਰਸ਼ਨ ਕਰੋ ਅਤੇ ਪੰਜਵਾਂ ਕਿਸੇ ਵੀ ਯੂਨਿਟ ਵਿੱਚੋਂ ਚੁਣੋ।

ਯੂਨਿਟ-1

1. ਵੈਦਿਕ ਕਾਲ ਵਿੱਚ ਭਾਰਤੀ ਸੰਗੀਤ ਦੇ ਇਤਿਹਾਸਿਕ ਵਿਕਾਸ ਨੂੰ ਲਿਖੋ।
2. ਹੇਠ ਲਿਖੇ ਸੰਗੀਤਕ ਸ਼ਬਦਾਂ ਦੀ ਪਰਿਭਾਸ਼ਾ ਲਿਖੋ: ਅਲੰਕਾਰ, ਅਰੋਹ, ਅਵਰੋਹ, ਪਕੜ।

ਯੂਨਿਟ-2

3. ਤਾਨਸੇਨ ਦਾ ਜੀਵਨ ਚਿੱਤਰ ਲਿਖੋ।
4. ਸੰਗੀਤ ਕੀ ਹੈ ਅਤੇ ਸੰਗੀਤ ਦੀਆਂ ਕਿਸਮਾਂ ਬਾਰੇ ਦੱਸੋ।

ਯੂਨਿਟ-3

5. ਗੁਰਮਤਿ ਸੰਗੀਤ ਵਿੱਚ ਹੇਠ ਲਿਖੇ ਸ਼ਬਦਾਂ ਦੀ ਵਿਆਖਿਆ ਕਰੋ: ਰਾਗ, ਰਹਾਊ, ਮੁਹੱਲਾ।
6. ਰਾਗ ਭੈਰਵ ਦੇ ਨੋਟੇਸ਼ਨ ਨੂੰ ਵਿਸਥਾਰ ਨਾਲ ਲਿਖੋ।

ਯੂਨਿਟ-4

7. ਹੇਠਾਂ ਦਿੱਤੇ ਗੈਰ-ਵਿਸਥਾਰ ਵਾਲੇ ਰਾਗਾਂ ਦੀ ਵਿਆਖਿਆ ਕਰੋ: ਦੇਸ਼ਕਾਰ, ਧਮਾਜ।
8. ਨਿਮਨਲਿਖਿਤ ਤਾਲਾਂ ਵਿੱਚੋਂ ਕਿਸੇ ਇੱਕ ਦਾ ਏਕਗੁਨ ਅਤੇ ਦੁਗੁਨ ਲਿਖੋ: ਕੇਹਰਵਾ ਜਾਂ ਤੀਤਿਲ।

Hindi Version

प्रत्येक खंड से कम से कम एक का चयन करते हुए कुल पांच प्रश्न हल करें और पांचवां प्रश्न किसी एक खंड से हल करें।

खंड—ए

1. वैदिक काल में भारतीय संगीत के ऐतिहासिक विकास को लिखिए।
2. निम्नलिखित संगीत शब्दों की परिभाषा लिखिए: अलंकार, आरोह, अवरोह, पकार।

खंड—बी

3. तानसेन का जीवन परिचय लिखिए।
4. संगीत क्या है तथा संगीत के प्रकार बताइये।

खंड—सी

5. गुरमत संगीत में निम्नलिखित शब्दों की व्याख्या करें। राग, रहो, मोहल्ला।
6. राग भैरव का स्वर विस्तार से लिखिए।

खंड—डी

7. निम्नलिखित अविस्तार रागों की व्याख्या करे:
देशकर, खमाज।
8. निम्नलिखित तालों में से किसी एक का एकगुन और दुगुन लिखिए: केहुरवा या तीनताल।

Exam Code: 103201 **Paper Code: 1137**

Bachelor of Arts (Semester-I)
Course Code: BARM-1384
Course Title: Physical Education

Time Allowed: 3 Hours **Max Marks: 50**

Note: Candidates are required to attempt **Five Questions,** selecting at least one question from each section. The Fifth Question may be attempted from **Any Section.** All questions carry 10 marks.

Section-A

1. Define Term Education. Explain the Need and Importance of Physical Education. 10

   ਸਿੱਖਿਆ ਦੀ ਮਿਆਦ ਅਤੇ ਸਰੀਰਕ ਸਿੱਖਿਆ ਦੀ ਲੋੜ ਅਤੇ ਮਹੱਤਵ ਨੂੰ ਪਰਿਭਾਸ਼ਿਤ ਕਰੋ

   शिक्षा शब्द और शारीरिक शिक्षा की आवश्यकता और महत्व को परिभाषित करें

2. Define the Term Physical Education. Discuss the Aim and Objectives of Physical Education? 10

   ਸਰੀਰਕ ਸਿੱਖਿਆ ਦੀ ਮਿਆਦ ਨੂੰ ਪਰਿਭਾਸ਼ਿਤ ਕਰੋ. ਸਰੀਰਕ ਸਿੱਖਿਆ ਦੇ ਟੀਚਾ ਅਤੇ ਉਦੇਸ਼ਾਂ ਦਾ ਵਰਣਨ ਕਰੋ?

   शारीरिक शिक्षा शब्द को परिभाषित करें. शारीरिक शिक्षा के लक्ष्य और उद्देश्यों का वर्णन करें?

Section-B

3. Explain the Effects of Heredity and Environment on Growth and Development. 10

   ਵਿਕਾਸ ਅਤੇ ਵਿਕਾਸ 'ਤੇ ਵਿਰਾਸਤ ਅਤੇ ਵਾਤਾਵਰਣ ਦੇ ਪ੍ਰਭਾਵਾਂ ਬਾਰੇ ਦੱਸੋ

   वृद्धि और विकास पर अनुवंशिकता और पर्यावरण के प्रभावों की व्याख्या करें

4. Describe the Meaning of Chronological Age, Physiological Age, Anatomical Age & Mental Age. 10

2123 (40)

ਕਾਲਕ੍ਰਮਿਕ ਉਮਰ, ਸਰੀਰਕ ਉਮਰ, ਸਰੀਰਿਕ ਉਮਰ ਅਤੇ ਮਾਨਸਿਕ ਉਮਰ ਦੇ ਅਰਥਾਂ ਦਾ ਵਰਣਨ ਕਰੋ

कालानुक्रमिक आयु, शारीरिक आयु, शारीरिक आयु और मानसिक आयु का अर्थ बताएं

Section-C

5. Explain the different types of Warming-up and Cooling Down in Sports. 10

ਖੇਡਾਂ ਵਿੱਚ ਵਾਰਮਿੰਗ-ਅੱਪ ਅਤੇ ਕੁਲਿੰਗ ਡਾਉਨ ਦੀਆਂ ਵੱਖ-ਵੱਖ ਕਿਸਮਾਂ ਬਾਰੇ ਦੱਸੋ

खेलों में वॉर्मिंग-अप और कूलिंग डाउन के विभिन्न प्रकारों की व्याख्या करें

6. Describe the Development of Physical Education in India after Independence. 10

ਆਜ਼ਾਦੀ ਤੋਂ ਬਾਅਦ ਭਾਰਤ ਵਿੱਚ ਸਰੀਰਕ ਸਿੱਖਿਆ ਦੇ ਵਿਕਾਸ ਦਾ ਵਰਣਨ ਕਰੋ .

स्वतंत्रता के बाद भारत में शारीरिक शिक्षा के विकास का वर्णन करें

Section-D

7. Write about the Ceremonial Traditions of Modern Olympic Games. 10

ਆਧੁਨਿਕ ਓਲੰਪਿਕ ਖੇਡਾਂ ਦੀਆਂ ਰਸਮੀ ਪਰੰਪਰਾਵਾਂ ਬਾਰੇ ਲਿਖੋ

आधुनिक ओलंपिक खेलों की औपचारिक परंपराओं के बारे में लिखें

8. Write about the Commonwealth Games. 10

ਰਾਸ਼ਟਰਮੰਡਲ ਖੇਡਾਂ ਬਾਰੇ ਲਿਖੋ

राष्ट्रमंडल खेलों के बारे में लिखें

Exam Code: 121201   Paper Code: 1133
(30)

Programme: Bachelor of Arts Semester-I

Course Title: Psychology (Basic Psychological Processes)

Course Code: BARM-1443

Time Allowed: 3 Hours   Max Marks: 60

Note: Attempt five questions in all, selecting atleast one question from each section. The fifth question may be attempted from any section. Each question will carries 12 marks.

SECTION-A

1. Why Psychology is called as a science? Also throw some light on the School of Structuralism.   6,6
2. Explain the relevance of Case Study Method in Psychology.   12

SECTION-B

3. Discuss David Mc Clleland's Need Achievement theory in detail.   12
4. Describe James-Lange theory of Emotions in detail.   12

SECTION-C

5. Explain Pavlov's Theory of Classical Conditioning.

12

6. Write a note on Verbal Learning.   12

SECTION-D

7. Explain the meaning and characteristics of measures of central tendency.   12

8. Show the calculation of Mean and Median assuming a hypothetical data.   12

Punjabi Version

ਹਰੇਕ ਭਾਗ ਵਿੱਚੋਂ ਇੱਕ ਪ੍ਰਸ਼ਨ ਚੁਣ ਕੇ, ਕੋਈ ਵੀ ਪੰਜ ਪ੍ਰਸ਼ਨਾਂ ਦੀ ਕੋਸ਼ਿਸ਼ ਕਰੋ। ਪੰਜਵਾਂ ਸਵਾਲ ਕਿਸੇ ਵੀ ਭਾਗ ਤੋਂ ਕਰਨ ਦੀ ਕੋਸ਼ਿਸ਼ ਕੀਤੀ ਜਾ ਸਕਦੀ ਹੈ। ਹਰੇਕ ਪ੍ਰਸ਼ਨ ਵਿੱਚ 12 ਅੰਕ ਹੋਣਗੇ।

ਸੈਕਸ਼ਨ-ਏ

1. ਮਨੋਵਿਗਿਆਨ ਨੂੰ ਵਿਗਿਆਨ ਕਿਉਂ ਕਿਹਾ ਜਾਂਦਾ ਹੈ? ਸਟ੍ਰਕਚਰਲਿਜ਼ਮ ਦੇ ਸਕੂਲ 'ਤੇ ਵੀ ਕੁਝ ਚਾਨਣਾ ਪਾਓ।

6.6

2. ਮਨੋਵਿਗਿਆਨ ਵਿਚ ਕੇਸ ਸਟੱਡੀ ਵਿਧੀ ਦੀ ਸਾਰਥਕਤਾ ਦੀ ਵਿਆਖਿਆ ਕਰੋ।

12

ਸੈਕਸ਼ਨ- ਬੀ

3. ਡੇਵਿਫਡ ਮੈਕਲਲੇਂਡ ਦੀ ਲੋੜ ਪ੍ਰਾਪਤੀ ਸਿਧਾਂਤ ਦੀ ਵਿਸਥਾਰ ਵਿੱਚ ਚਰਚਾ ਕਰੋ।

12

4. ਜਜ਼ਬਾਤਾਂ ਦੇ ਜੇਮਸ ਲੈਂਜ ਸਿਧਾਂਤ ਦਾ ਵਿਸਥਾਰ ਵਿੱਚ ਵਰਣਨ ਕਰੋ।

12

ਸੈਕਸ਼ਨ-ਸੀ

5. ਪਾਵਲੋਵ ਦੇ ਕਲਾਸੀਕਲ ਕੰਡੀਸ਼ਨਿੰਗ ਦੇ ਸਿਧਾਂਤ ਦੀ ਵਿਆਖਿਆ ਕਰੋ।

12

6. ਜ਼ੁਬਾਨੀ ਸਿਖਲਾਈ 'ਤੇ ਨੋਟ ਲਿਖੋ। 12

ਸੈਕਸ਼ਨ-ਡੀ

7. ਕੇਂਦਰੀ ਪ੍ਰਵਿਰਤੀ (Measures of Central Tendency) ਦੇ ਮਾਪਾਂ ਦੇ ਅਰਥ ਅਤੇ ਵਿਸ਼ੇਸ਼ਤਾਵਾਂ ਦੀ ਵਿਆਖਿਆ ਕਰੋ। 12

8. ਇੱਕ ਕਾਲਪਨਿਕ ਡੇਟਾ ਨੂੰ ਮੰਨ ਕੇ Mean ਅਤੇ Median ਦੀ ਗਣਨਾ ਦਿਖਾਓ। 12

Exam Code: 121201   Paper Code: 1144

Programme: Bachelor of Arts (Semester – I)

Course Title: Sanskrit (Elective) (काव्य एवमं व्याकरण)

Course Code: BARM – 1466

Time Allowed: 3 Hours   **Max. Marks: 60**

नोट –

i. प्रश्नपत्र का माध्यम हिन्दी /संस्कृत होगा । उत्तर संस्कृत,अंग्रेजी,हिन्दी और पंजाबी में हो सकते हैं ।

ii. प्रश्नपत्र के चार सैक्शन A,B,C,D हैं । प्रत्येक सैक्शन में दो प्रश्न हैं । इस प्रकार चार सैक्शन में कुल आठ प्रश्न हैं । विद्यार्थी किसी एक सैक्शन से दोनों प्रश्न करेगा । शेष तीन सैक्शन में से एक एक प्रश्न करेगा । सभी प्रश्नों के अंक १२ हैं।

SECTION –A

QUESTION-1.   निम्नलिखित पद्यों में से चार पद्यों की सप्रसंग व्याख्या कीजिए -   १२ अंक

१.   गुरुवाणी सदा श्राव्या शुत्वा मनः सुखायते ।
      गुरुवाग्रसमास्वाद्य सदयः को न जायते ॥

२.   परोपकारपाणियः पंचापम्प्रान्तपावनः ।
      पर्यावरणगोपाऽसीन्न प्रेमपाठपाठकः ॥

३.   अमृतसरमानीतः पंगुः प्यारेति नामकः ।
      अंगीकृतं दयाशीलः पालयति जहाति न ॥

४.   आश्रमं स तु दीनेभ्यो निर्मितस्ते स्म वस्तुतः ।
      सहमाना जनाघातान् ध्रियेरन्ते न वीथिषु ॥

QUESTION-2.   (क) भक्त पूर्णसिंह जी का जीवनवृत्त स्वशब्दों में लिखिए ।   ०६ अंक
               (ख) पूर्णसार्धशतकम् का सार स्वशब्दों में लिखिए ।   ०६ अंक

SECTION – B

QUESTION-3.   निम्नलिखित पद्यों में से चार पद्यों की सप्रसंग व्याख्या कीजिए -   १२ अंक

१.   धिक् खलु हस्तपादं तत् सेवां करोति नात्र यत् ।
      सन्देशं गुरुवर्याणां हृदि कृत्वा समाचरत् ॥

२.   सुलेखो लेखरामेण ललाटे लिखितो मम ।
      रेणुः पीडितपादानां पततु सततं मयि ॥

३.   पीडिता मेऽग्रतः सन्तु पीडिता मम पृष्ठतः ।
      पीडिताः परितो मां स्युर्बूते यावत्तु सन्ति ते ॥

४.   कर्णाकर्णि गता वार्ता ग्रामेषु नगरेषु च ।
      समवलोक्यते पूर्णः सेवाकार्यसमर्पितः ॥

QUESTION-4.   (क) भक्त पूर्णसिंह जी का सेवाभाव स्वशब्दों में लिखिए ।   ०६ अंक
               (ख) पूर्णसार्धशतकम् का सार स्वशब्दों में लिखिए ।   ०६ अंक

SECTION – C

QUESTION-5.   निम्नलिखित १२ संख्यावाची शब्दों को संस्कृत में लिखिए -   १२ अंक

६, १६, ९६, ६९, ५८, १००, २४, ७८, ९०, १९, ५९, ८९

QUESTION-6.   (क) निम्नलिखित दो धातुओं के लट्,लोट् एवं लृट् लकारों में रूप लिखिए -   ०६ अंक

१.   भू   २.   लिख्

(ख) निम्नलिखित ६ पदों में सन्धि/सन्धि-विच्छेद कीजिए -   ०६ अंक

१.   नै   +   अकः
२.   हित   +   उपदेशः
३.   महर्षिः
४.   विष्णूदयः
५.   महौषधिः
६.   हिम + आलयः

SECTION – D

QUESTION-7.   निम्नलिखित छः अव्ययों का संस्कृत-वाक्यों में प्रयोग कीजिए-   १२ अंक

१.   सर्वत्र
२.   पुनः
३.   अधुना
४.   सदा
५.   यथा
६.   यत्र

QUESTION- 8.   (क) निम्नलिखित दो धातुओं के लङ् एवं विधिलिङ् लकारों में रूप लिखिए-   ०६ अंक

१.   पठ्   २.   दृश्

(ख) निम्नलिखित ६ वर्णों का उच्चारणस्थान लिखिए-   ६ अंक

१.   अ

Exam Code: 121701   Paper Code: 1264
   (50)

Programme: Bachelor of Business Administration
Semester-I

Course Title: Business Communication

Course Code: BBRL-1106

Time Allowed: 3 Hours   **Max Marks: 80**

Note: Attempt five questions in all, selecting at least one question from each section. The fifth question may be attempted from any section. Each question carries 16 marks.

Section-A

1. Explain the 7Cs of effective business communication.
2. Explain the meaning and importance of business communication. Also discuss its process.

Section-B

3. Discuss business manners and etiquette? Why are they important for successful business?
4. What is presentation skills? Explain the various factors affecting presentation.

Section-C

5. What is bank correspondence? Write a letter to bank for opening current account.
6. What considerations must be kept in mind while drafting a sales letter.

Section-D

7. What is importance of resume in today times? What principles should be followed in making a resume attractive?
8. What is group discussions? Discuss in detail the different ways to form groups.

Exam Code: 121701   Paper Code: 1263
    (50)

Programme: Bachelor of Business Administration
Semester-I

Course Title: Managerial Economics-I

Course Code: BBRL-1175

Time Allowed: 3 Hours   Max Marks: 80

Note: Attempt

five questions in all, selecting at least one question from each section. The fifth question may be attempted from any section. Each question carries 16 marks.

Section-A

1. What do you mean by Price elasticity of demand? Explain the measurements of price elasticity of demand? 16

2. A consumer tries to equalize his utility from last rupee spent on all commodities under his baket of goods. Comment. 16

Section-B

3. Explain in detail Law of supply. 16

4. What is substitution effect. Show diagrammatically how price effect contains both income and substitution effect. 16

Section-C

5. Define Law of variable proportions and explain its various stages. 16
6. Explain short run traditional theory of cost in detail. 16

Section-D

7. Discuss the price and output determination under Monopoly in short period and long period. 16
8. Discuss equilibrium of a firm under prefect competition in short period and long period. 16

FoR REAPPEAR CANDIDATES (2022-23.)

Exam Code: 121701   Paper Code: 9195
   (20)

Programme: Bachelor of Business Administration
                Semester-I

Course Title: Managerial Economics-I

Course Code: BBRL-1175

Time Allowed: 3 Hours   Max Marks: 40

Note: Attempt

five questions in all, selecting at least one question from each
section. The fifth question may be attempted from any
section. Each question carries 8 marks.

Section-A

1. What do you mean by Price elasticity of demand?
   Explain the measurements of price elasticity of
   demand?   8

2. A consumer tries to equalize his utility from last rupee
   spent on all commodities under his baket of goods.
   Comment.   8

Section-B

3. Explain in detail Law of supply.   8

4. What is substitution effect. Show diagrammatically how price effect contains both income and substitution effect.   8

• Section-C

5. Define Law of variable proportions and explain its various stages.   8
6. Explain short run traditional theory of cost in detail.   8

Section-D

7. Discuss the price and output determination under Monopoly in short period and long period.   8
8. Discuss equilibrium of a firm under prefect competition in short period and long period.   8

(For Reappear Candidates (2022-23))

Exam Code: 121701   Paper Code: 9124
(50)

Programme: Bachelor of Business Administration
Semester-I

Course Title: Basic Accounting

Course Code: BBRL-1323

Time Allowed: 3 Hours   Max Marks: 40

Note: Candidates are required to attempt five questions, selecting one question from each section (A-D) and the fifth question may be attempted from any section. Each question carries 8 marks.

SECTION -A

1. What do you mean by financial accounting? Explain the Limitations of financial accounting.

2. Pass the Journal entries in the books of Sanjeev:

   a. Started business with cash Rs. 30,000, goods worth Rs. 8,000, office equipment Rs. 7,000 and his personal scooter worth Rs. 15,000 which will be used for business purpose.

   b. Purchased furniture from s.k. bros. Rs. 4,240 and paid cartage thereon Rs. 50 in cash.

c. Bought one TV costing Rs. 15,000 for personal use.

d. Bought furniture costing Rs. 10,000 out of which Rs. 2,000 is for office decoration and remaining for stock.

e. Sold old office equipment costing Rs. 3,000 for Rs. 5,000.

f. Sold household furniture Rs. 3,000 and paid the money to the business.

g. Paid Rs. 1,200 as rent. 1/3rd of the premises is occupied for personal residence.

h. Sold goods Rs. 6,000 of which Rs. 5,000 is received by cheque and Rs. 1,000 by cash. The cheque is deposited in personal bank account.

SECTION -B

3. What do you mean by Bank reconciliation statement. Explain the various reasons for disagreement between the balances of cash book and pass book.

4. Prepare a cash book with Discount, Cash and Bank Columns from the following transactions:

2022

March 1 Cash in Hand Rs. 1,200; Bank Balance credit Balance Rs. 15,000.

March 4. Further capital introduced Rs. 20,000 and out of which deposited into bank Rs. 16,000.

March 5. Received cheque from Ram Rs. 2,450 in fill settlement of Rs. 2,500.

March 6. Sold to Mohan Rs. 7,000 on credit.

March 8 Drew from bank for personal use Rs. 1,500

March 10. Raja who owed us Rs. 400 become insolvent and 60 paise is received from his estate as final dividend.

March 15. Interest charged b bank Rs. 375.

March 17. Deposited cheque of Ram for Rs. 2,450.

March 18. Settle the account of raghav Rs. 750 by paying cash Rs.680.

March 19. Cash received from Sonu Rs. 4,750 in full settlement of his account of Rs. 5,000.

March 23 Received Rs. 1,000 from Sharma and co, a debt previously Written off as bad debt

March 27. Received a cheque from Summit and endorsed it to Rohit Rs. 800.

March 30.Deposited with the bank the entire balance after retaining Rs. 2,000.

SECTION -C

5. What do you mean by financial statements? Explain the importance of financial statements.

6. Prepare Trading and Profit and Loss Account & Balance Sheet for the Year ended 31st December, 2021:

Particulars	Dr. Rs.	Cr. Rs.
Drawings and Capital	7,500	50,000
Purchase and sales	72,100	95,000
Returns	1,300	
Debtors and Creditors	18,200	
Opening Stock	19,800	
Bad Debts	3,000	
Bills receivable and Payables	12,000	
Cash in hand	300	
Office expense	6,210	
Sales van	15,000	
Sales van expense	1,400	
Discount		2,910
Rent and taxes	10,700	
Telephone charges	1,050	
Postage and telegram	950	
Furniture	5,000	
Printing and stationery	2,750	
Commission	8,400	
Carriage inward	3,200	
Salaries and wages	20,500	
	2,09,360	2,09,360

Adjustments

1. Closing stock Rs. 61,700
2. Depreciation on Furniture at 10% and sales van at 20%
3. Outstanding rent Rs. 900

4. Bad debts Rs. 200
5. Make a provision on doubtful debts @5%
6. Charge $1/4^{th}$ of salaries and wages to trading account.

SECTION —D

7. Explain the important provisions of companies Act, 2013 in respect of preparation of final accounts of a company.

8. What is computerize accounting? Explain its applications in financial accounting.

Exam Code: 121701   Paper Code: 1261
   (50)

Programme: Bachelor of Business Administration
Semester-I

Course Title: Basic Accounting

Course Code: BBRL-1323

Time Allowed: 3 Hours   Max Marks: 80

Note: Candidates are required to attempt five questions, selecting one question from each section (A-D) and the fifth question may be attempted from any section. Each question carries 16 marks.

SECTION -A

1. What do you mean by financial accounting? Explain the Limitations of financial accounting.

2. Pass the Journal entries in the books of Sanjeev:

    a. Started business with cash Rs. 30,000, goods worth Rs. 8,000, office equipment Rs. 7,000 and his personal scooter worth Rs. 15,000 which will be used for business purpose.

    b. Purchased furniture from s.k. bros. Rs. 4,240 and paid cartage thereon Rs. 50 in cash.

c. Bought one TV costing Rs. 15,000 for personal use.

d. Bought furniture costing Rs. 10,000 out of which Rs. 2,000 is for office decoration and remaining for stock.

e. Sold old office equipment costing Rs. 3,000 for Rs. 5,000.

f. Sold household furniture Rs. 3,000 and paid the money to the business.

g. Paid Rs. 1,200 as rent. 1/3rd of the premises is occupied for personal residence.

h. Sold goods Rs. 6,000 of which Rs. 5,000 is received by cheque and Rs. 1,000 by cash. The cheque is deposited in personal bank account.

SECTION -B

3. What do you mean by Bank reconciliation statement. Explain the various reasons for disagreement between the balances of cash book and pass book.

4. Prepare a cash book with Discount, Cash and Bank Columns from the following transactions:

2022

March 1 Cash in Hand Rs. 1,200; Bank Balance credit Balance Rs. 15,000.

March 4. Further capital introduced Rs. 20,000 and out of which deposited into bank Rs. 16,000.

March 5. Received cheque from Ram Rs. 2,450 in fill settlement of Rs. 2,500.

March 6. Sold to Mohan Rs. 7,000 on credit.

March 8 Drew from bank for personal use Rs. 1,500

March 10. Raja who owed us Rs. 400 become insolvent and 60 paise is received from his estate as final dividend.

March 15. Interest charged b bank Rs. 375.

March 17. Deposited cheque of Ram for Rs. 2,450.

March 18. Settle the account of raghav Rs. 750 by paying cash Rs.680.

March 19. Cash received from Sonu Rs. 4,750 in full settlement of his account of Rs. 5,000.

March 23 Received Rs. 1,000 from Sharma and co. a debt previously Written off as bad debt

March 27. Received a cheque from Summit and endorsed it to Rohit Rs. 800.

March 30.Deposited with the bank the entire balance after retaining Rs. 2,000.

SECTION -C

5. What do you mean by financial statements? Explain the importance of financial statements.

6. Prepare Trading and Profit and Loss Account & Balance Sheet for the Year ended 31st December, 2021:

Particulars	Dr. Rs.	Cr. Rs.
Drawings and Capital	7,500	50,000
Purchase and sales	72,100	95,000
Returns	1,300	
Debtors and Creditors	18,200	
Opening Stock	19,800	
Bad Debts	3,000	
Bills receivable and Payables	12,000	
Cash in hand	300	
Office expense	6,210	
Sales van	15,000	
Sales van expense	1,400	
Discount		2,910
Rent and taxes	10,700	
Telephone charges	1,050	
Postage and telegram	950	
Furniture	5,000	
Printing and stationery	2,750	
Commission	8,400	
Carriage Inward	3,200	
Salaries and wages	20,500	
	2,09,360	2,09,360

Adjustments

1. Closing stock Rs. 61,700
2. Depreciation on Furniture at 10% and sales van at 20%
3. Outstanding rent Rs. 900

4. Bad debts Rs. 200
5. Make a provision on doubtful debts @5%
6. Charge $1/4^{th}$ of salaries and wages to trading account.

SECTION —D

7. Explain the important provisions of companies Act, 2013 in respect of preparation of final accounts of a company.

8. What is computerize accounting? Explain its applications in financial accounting.

Exam Code: 121701   Paper Code: 1262
(50)

Programme: Bachelor of Business Administration
Semester-I

Course Title: Business Organization and Systems

Course Code: BBRL-1324

Time Allowed: 3 Hours   Max Marks: 80

Note: Attempt five questions in all, selecting at least one question from each section. The fifth question may be attempted from any section. Each question carries 16 marks.

Section-A

1. "Business is essential for survival of society." In the light of above statement discuss objectives.
2. Explain industrial revolution in detail? Also discuss industrialization in India.

Section-B

3. Define partnership? Differentiate between sole proprietorship and partnership.
4. Discuss the factors affecting size of the firm?

Section-C

5. What is foreign trade? Explain the Exports procedure in detail.
6. What do you mean by business environment? Explain the external environment in detail.

Section-D

7. Discuss various functions of stock exchange?
8. What do you understand by term wholesaler? Explain functions of wholesaler?

FOR REAPPEAR CANDIDATES (2022-23).

Exam Code: 121701   Paper Code: 9126

Programme: Bachelor of Business Administration
Semester-I

Course Title: Business Organization and Systems

Course Code: BBRL-1324

Time Allowed: 3 Hours   Max Marks: 40

Note: Attempt five questions in all, selecting at least one question from each section. The fifth question may be attempted from any section. Each question carries 8 marks.

Section-A

1. "Business is essential for survival of society." In the light of above statement discuss objectives.
2. Explain industrial revolution in detail? Also discuss industrialization in India.

Section-B

3. Define partnership? Differentiate between sole proprietorship and partnership.
4. Discuss the factors affecting size of the firm?

Section-C

5. What is foreign trade? Explain the Exports procedure in detail.
6. What do you mean by business environment? Explain the external environment in detail.

Section-D

7. Discuss various functions of stock exchange?
8. What do you understand by term wholesaler? Explain functions of wholesaler?

Exam Code: 121701　　　　　　　　　Paper Code: 1265
　　(50)

Programme: Bachelor of Business Administration
Semester-I

Course Title: Computer Applications for Business-I

Course Code: BBRM-1127

Time Allowed: 3 Hours　　　　　　　　Max Marks: 50

Note: Candidates are required to attempt five questions in all, selecting at least one question from each section. The fifth question may be attempted from any section. Each question carries (10) equal marks.

Section A

1. What do you mean by Computer? What are the generations of Computer System?
2. What is Software? Explain different types of software.

Section B

3. What is Operating System? What are the its types on the basis of processing?
4. What is DOS? Explain the basic Internal and External Commands of DOS with example

Section C

5. How to format the Page in MS Word?
6. Write Short Note on:
   (i) Header and Footer
   (ii) Indents and Outdent

Section D

7. How to entering information in worksheet and also tells how to open and save workbook? Write steps to Protect cells.
8. Explain
   (a) Slider Sorter View and Slide Show View
   (b) Inserting Picture.

FOR REAPPEAR CANDIDATES (2022-23).

Exam Code: 121701

Paper Code: 9127·

Programme: Bachelor of Business Administration
Semester-I

Course Title: Computer Applications for Business-1

Course Code: BBRM-1127

Time Allowed: 3 Hours

Max Marks: 25

Note: Candidates are required to attempt five questions in all, selecting at least one question from each section. The fifth question may be attempted from any section. Each question carries (5) equal marks.

Section A

1. What do you mean by Computer? What are the generations of Computer System?
2. What is Software? Explain different types of software.

Section B

3. What is Operating System? What are the its types on the basis of processing?
4. What is DOS? Explain the basic Internal and External Commands of DOS with example

Section C

5. How to format the Page in MS Word?
6. Write Short Note on:
   (i) Header and Footer
   (ii) Indents and Outdent

Section D

7. How to entering information in worksheet and also tells how to open and save workbook? Write steps to Protect cells.
8. Explain
   (a) Slider Sorter View and Slide Show View
   (b) Inserting Picture.

Exam Code: 120601 **Paper Code: 1202**

Programme: Bachelor of Science (Bio-Technology)

Semester: 1

Course Title: Botany-1

Course Code: BBTL-1074

Time Allowed: 3 Hours **Max Marks: 80**

Note: Attempt five questions in all, selecting atleast one question from each section. The fifth question may be attempted from any Section. Each question carries 16 marks. Draw well labelled diagrams wherever necessary.

Section A

1. Write in detail about the general characteristics of Algae.   16
2. a. What is Biological Nomenclature? Describe about the   8+8
   concept of species in detail.
   b. What do you understand by the taxonomical hierarchy levels?

Section B

3. Describe the following: 6+6+4
   a. Complex permanent tissue.
   b. Internal structure of monocot leaf.
   c. Draw a well labeled diagram of dicot root.
4. Give detail description of secondary growth in stem of   16
   Helianthus.

Section C

5. Give an illustrated account of megasporogenesis and   16
   development of female gametophyte in Angiosperm.
6. Write explanatory note on following: 4+6+6
   i. Self-incompatibility
   ii. Cross Pollination.
   iii. Endosperm and its morphological nature.

Section D

7. a. Give an outline of Bentham and Hookersystem of   8+4+4
   classification and discuss its merits and demerits.
   b. Write note on following:
      i. Aestivation   ii. Floral Symmetry
8. a. Give an account of diagnostic characters and economic   12+4
   importance of Family Solanaceae and Brassicaceae.
   b. Write short note on Artificial system classification.

2123   30

Exam Code: 120601   **Paper Code: 1281**

Programme: Bachelor of Science (Biotechnology) (Semester: I)

Course Title: Biochemistry - I

Course Code: BBTL-1085

Time Allowed: 3 Hours   **Max. Marks: 80**

Note: Attempt five questions in all, selecting atleast one question from each section. The fifth question may be attempted from any section. Each question carries 16 marks.

Section A

1. a) Discuss Hasselbach Hendersson equation and its implications?
                                                          (10 Marks)
    b) What is association and dissociation constant?   (6 Marks)
2. a) Discuss role of buffers in biological system.   (6 Marks)
    b) Write a note on physiochemical properties of water? (10 Marks)

Section B

3. a) What are anomers? Draw the structure of anomers of Glucose?
                                                          (5 Marks)
    b) What are disaccharides? Draw the structure of one non reducing disaccharide?   (5 Marks)
    c) Write a note on Glycoproteins?   (6 Marks)
4. Write a note on storage and structural polysaccharides of plant?
                                                          (16 Marks)

Section C

5. a) Write a note on fatty acids? Draw the structure of one saturated and one unsaturated fatty acid?   (8 Marks)
    b) Write a note on Sphingolipids?   (8 Marks)
6. Discuss the structure and function of terpenes, sterols and prostaglandins?   (16 Marks)

Section D

7. Discuss various ways in which we can classify proteins and state their functions?   (16 Marks)
8. a) Draw the structure of any five essential amino acids?   (10 marks)
    b) Discuss the forces stabilizing primary, secondary and tertiary protein structures?   (6 marks)

2123   30

Exam Code: 120601   Paper Code: 1205

Programme: Bachelor of Science (Bio-Technology) Semester: I

Course Title: Chemistry-I

Course Code: BBTL-1087

Time Allowed: 3 Hours   Max Marks: 80

Note: Attempt five questions in all, selecting atleast one question from each section. The fifth question may be attempted from any section.

Section-A

1. a) Define primary and secondary valency. Explain the structure of following cobalt ammines on the basis of Werner's theory indicating all the primary and secondary valencies involved: (8)
    (i) $CoCl_3.3NH_3$
    (ii) $CoCl_3.4NH_3$
    (iii) $CoCl_3.5NH_3$

    b) Distinguish between ionization and hydrate isomerism. (4)

    c) Discuss the geometries of complex with coordination number 7. (4)

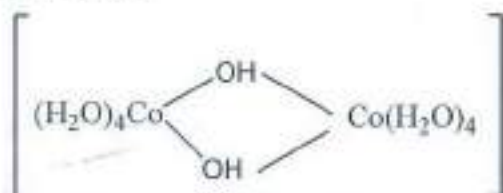2. a) Write the IUPAC names of the following compounds: (8)
    i) $[Co(en)_3]_2(SO_4)_3$
    ii) $Na_3[Fe(C_2O_4)_3]$
    iii) $K_4[Ni(CN)_4]$
    iv)
    $$\left[(H_2O)_4Co \underset{OH}{\overset{OH}{\diagup\diagdown}} Co(H_2O)_4 \right]$$

    b) What are the essential conditions for a compound to show optical activity? (4)

    c) Illustrate with suitable examples the coordination position isomerism. (4)

Section-B

3. a) How does VBT account for the fact that $[CoF_6]^{3-}$ is paramagnetic while $[Co(NH_3)_6]^{3+}$ is diamagnetic though both are octahedral? (8)

    b) What are the limitations of valence bond theory of coordination compounds? (8)

4. a) According to V.B. theory $[Ni(CN)_4]^{2-}$ is square planar while $[NiCl_4]^{2-}$ is tetrahedral. Explain. (8)

    b) Explain electro neutrality principle. (4)

    c) Explain on the basis of VBT, whether $[Mn(CN)_6]^{4+}$ forms outer orbital complex or inner orbital complex. (4)

Section-C

5. a) What is macrocyclic effect? Explain with the help of examples. (6)

    b) How does chelate effect account for the enhanced stability of the complexes. (6)

    c) How nature of the central metal ion affect the stability of metal complexes. (4)

6. a) Discuss in detail the factors affecting the stability of metal complexes. (8)

    b) Write a brief note on cryptates? How these differ from crown ethers? (4)

    c) Define and explain chelate effect. (4)

Section-D

7. a) Define crystal field stabilization energy. Calculate its value for the following systems:
    (i) d^7 low spin octahedral (8)
    (ii) d^4 high spin octahedral
    (iii) d^5 high spin tetrahedral
    (iv) d^3 high spin tetrahedral

    b) Discuss how the CFSE values vary for the following complexes:
    $[CrF_6]^{3-}$, $[Cr(H_2O)_6]^{3+}$, $[Cr(en)_3]^{3+}$, $[Cr(CN)_6]^{3-}$ (8)

8. a) What is crystal field theory? How does it differ from the valence bond theory? How does this theory account for the fact that $[CoF_6]^{3-}$ is paramagnetic but $[Co(NH_3)_6]^{3+}$ is diamagnetic, though both are octahedral? (8)

    b) Compare the CFSE values of the following octahedral complexes: $[Fe(H_2O)_6]^{2+}$, $[Cr(H_2O)_6]^{3+}$ and $[Cu(H_2O)_6]^{2+}$. (8)

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Exam Code: 120601   **Paper Code: 1204**
Programme: Bachelor of Science (Bio-technology) Semester:I
Course Title: General Microbiology - 1
Course Code: BBTL-1346

Time Allowed: 3 Hours   **Max Marks: 80**

Note: Attempt five questions in all, selecting atleast one question from each section. The fifth question may be attempted from any Section. Each question carries 16 marks.

Section – A

1. a) Write a note on Acidophiles? What adaptations do they have to survive in high acid conditions? (7)
   b) Explain the different characteristics of Fungi / Yeast studies by you? (6)
   c) Define "Microbial BioTechnology"? What is its perspective? (3)
2. Extensively explain the relationship between Microbiology and BioTechnology? Name and explain the various discoveries which lead to growth of microbiology to present time BioTechnology? (16)

Section – B

3. Write a comprehensive note on cell wall structure of Gram positive and Gram negative bacteria? Differentiate between the two types of walls? (16)
4. Give detailed information about the structure and mechanism of movements of bacterial flagella? What are its different types, explain with help of suitable diagrams? (16)

Section – C

5. a) Write in detail about the preservation by Cryopreservation? Explain the role of "cryoprotective agents" in this method of microbial preservation? (6)
   b) Explain any three types of growth media studied by you? (6)
   c) Define Serotypes with help of any one example? (4)
6. a) What are the various nutritional forms of bacteria? Comprehensively explain each with reference to their metabolism? (8)
   b) Explain the various physical and chemical methods of sterilization in detail? (8)

Section – D

7. Write a diagrammatic note on Phase contrast microscopy? Write the principle, working, structure and advantages of phase contrast microscope? (16)
8. What do you know about Scanning Electron Microscope and Transmission Electron Microscope? Write the principle, working, structure and advantages of these two types of microscope? (16)

2123   30

Exam Code: 107401   Paper Code: 1201

Bachelor of Science (Biotechnology) Semester- I
Course Title: Cell Biology
Course code: BBTL-1483

Time Allowed: 3 Hours   **Max Marks: 80**

Note: Attempt five questions in all, selecting atleast one question from each section. Fifth question may be attempted from any section. Each question carries 16 marks. Draw neat and well labeled diagrams wherever required.

Section A
1. What is tissue? Explain epithelial tissue in detail. (16)
2. Explain structure of bacteria with the help of well labeled diagram. (16)

Section B
3. Draw structure of nucleus and discuss nuclear membrane in detail. (16)
4. Name various models of plasma membrane and discuss most accepted model. (16)

Section C
5. Why meiosis I is called reductional division explain with suitable diagrams. (16)
6. Explain different types of cell- cell interactions. (16)

Section D
7. Differentiate between active and passive transport with the help of suitable examples. (16)
8. Explain supramolecular architecture of membranes. (16)

(For Reappear Candidates (2022-23))

Exam Code: 120601   Paper Code: 9141

Bachelor of Science (Bio-Technology) Semester-I
Course Title: Biochemistry-1
Course Code: BBTM- 1085

Time: 3 Hour   Marks: 30

Note: Candidates are required to attempt five questions in all, selecting atleast one question from each section. The fifth question can be attempted from any section. Each question carries equal (6) marks.

Section-A

1. Discuss the role of water in life and explain the physico-chemical properties of water in detail.   (6)

2. Derive Hasselbach Hendersson equation and discuss its implications. (6)

Section-B

3. Write a note on following:

a) Furanose and Pyranose ring   (3)

b) Reducing and non-reducing sugar   (3)

4. Write a note on structural polysaccharides in detail.   (6)

Section-C

5. Write a detailed note on lipid classification.   (6)

6. Discuss:
   a) Phosphoglycerides   (3)
   b) Glycosphingolipids   (3)

Section-D

7. Discuss the classification of proteins in detail.   (6)

8. Write a note on following:

a) Non protein and rare amino acids   (3)

b) Forces stabilizing primary, secondary and tertiary protein structures (3)

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(For Reappear Candidates (2022-23))

Exam Code: 120601   Paper Code: 9142

Programme: Bachelor of Science (Bio-Technology) Semester: I
Course Title: Chemistry-I
Course Code: BBTM-1087 ✓

Time Allowed: 3 Hours   Max Marks: 30

Note: Attempt five questions in all, selecting atleast one question from each section. The fifth question can be attempted from any section. Each question carries equal (6) marks.

Section-A

1. a) Which ligand in $[Co(NH_3)_5 (NO_2)] Cl_2$ is responsible for showing linkage isomerism? Write and draw the structures for both the linkage isomers. Also give the IUPAC names for the isomers.   (4)

   b) Discuss the different geometries involved with coordination number 4.   (2)

2. a) Which two types of geometrical isomers exist in the octahedral complexes of the type $[MA_3B_3]$? Discuss in detail with help of example.   (4)

   b) What are the essential conditions for a compound to show optical activity?   (2)

Section-B

3. a) Explain the hybridization and structure on the basis of VBT for $[NiCl_4]^{2-}$ ion.   (3)

   b) Explain the concept of back bonding in coordination complexes.   (3)

4. a) Explain on the basis of VBT, whether the following complexes are diamagnetic and paramagnetic: (6)

   (i) $[Fe(H_2O)_6]^{3-}$
   (ii) $[Fe(CN)_6]^{4-}$

Section-C

5. a) Discuss the thermodynamic stability of metal complexes in detail.   (4)

   b) Explain macrocyclic effect by giving examples for it.   (2)

6. a) What are chelates? On what factors does the stability of chelates depend?   (4)

   b) Give a short note on cryptands.   (2)

Section-D

7. a) What is crystal field stabilization energy? Calculate crystal field stabilization energy for the following systems: (4)

   (i) d^4 low spin octahedral
   (ii) d^5 high spin octahedral
   (iii) d^6 high spin tetrahedral

   b) Draw the crystal field splitting of d-orbitals in square planar complexes.   (2)

8. a) Briefly describe the splitting of d-orbitals in octahedral complexes.   (4)

   b) Give the number of unpaired electrons in a strong and weak octahedral field for Co^{2+} ion.

Exam Code: 117901   Paper Code: 1276
   (80)

Programme: Bachelor of Computer Applications
Semester-I

Course Title: Digital Electronics

Course Code: BCAL-1113

Time Allowed: 3 Hours   Max Marks: 80

Note: Attempt five questions in all, selecting atleast one question from each section. The fifth question may be attempted from any section. All questions carry equal marks.

(Section A)

1. a) $(289.65)_{10} = (?)_{16}$

   b) $(10111010100)_{Gray\ Code} = (?)_{8}$

   c) $(146.23)_{8} = (?)_{16}$

   d) $(11011001.0101)_{2} = (?)_{10}$

                             (4x4=16)

2. a) subtract 10101110 from 111100101 using 2' complement subtraction method.

b) $(10010011)_{BCD} - (100001111)_{BCD} = (?)_{BCD}$

c) Represent – $(83)_{10}$ 8-bit 1's Complement Representation.

d) What do you mean by XS-3 code? How it is related to BCD code? (4x4=16)

(Section B)

3. a) What is universal gate? Why it is termed as universal gate? Explain with example.

b) Minimize $F(A,B,C,D)$ = $\Pi(3,4,5,9,10,11,12)$ U $d(1,2,8,13)$. (2X8=16)

4. a) Minimize $F = \overline{AB} + \overline{A} + \overline{BC}$. Also draw the Boolean circuit of minimized expression.

b) What is standard SOP form? How an expression is converted into it? Explain with an example.

(2X8=16)

(Section C)

5. a) What do you mean by De-multiplexer? Explain with example. How 16:1 Multiplexer is created using only 4:1 Multiplexers?

   b) What is half adder? Explain its truth table and internal structure. (2X8=16)

6. We need to derive a main memory of size 128 X 4 from chips of size 16 X 2.

   a) How many chips will be needed to build main memory?

   b) How many chip select lines are used?

   c) What will be the size of decoder?

   d) Draw the memory interconnections. (4X4=16)

(Section D)

7. a) What is RS-latch? Explain the working of RS latch using NOR gates.

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b) Explain the working of SR flip-flop with truth and excitation table. (2X8=16)

8. a) What do you mean by PIPO registers? Explain.

b) Explain the working of UP Counter in detail.

(2X8=16)

For Reappear Candidates (Old Syllabus (2020-21))

Exam Code: 117901   Paper Code: 9155

Programme: Bachelor of Computer Applications, Semester-1
Course Title: Introduction to Programming – C
Course Code: BCAL–1113

Time: 3HRS.   Max. Marks: 60

NOTE: - Attempt five questions in all selecting at least one question from each section, fifth question may be attempted from any section. Each question carries equal (12) marks.

Section-A

Q1:- Write short notes on the following: (4*3=12)

     a) Character Set
     b) Constants
     c) Symbolic Constant
     d) Identifiers

Q2: - What are different types of operators available in C? Explain any four operators with examples.   (12)

Section-B

Q3: - Write down the purpose of the switch statement. Summarize the syntax rules associated with the use of switch statement.   (12)

Q4:-a) What is the difference between while and do while loop? Explain with the help of a program.

     b) What is a storage class? Explain register and auto storage class with an example.

                  (2*6=12)

Section-C

Q5:- a) Define recursion. Write a recursive function for finding factorial of a number entered by the user.

     b) Explain all string handling functions available in C.   (2*6=12)

Q6: - Define arrays. How two dimensional arrays are declared and initialized in C?   (12)

Section-D

Q7: - What is the difference between structure and union? What are the uses of unions? Explain giving examples.   (12)

Q8: - a) Define pointer. How are pointers better than arrays? Explain.   (2*6=12)

     b) How a pointer is passed to a function? Explain giving examples.

Exam Code: 117901   Paper Code: 1277
   (80)

Programme: Bachelor of Computer Applications Semester-I

Course Title: Introduction to Programming – C

Course Code: BCAL-1114

Time Allowed: 3 Hours   Max Marks: 80

Candidates are required to attempt five questions in all, selecting atleast one question from each section. The fifth question may be attempted from any section. Each question carries equal (16) marks.

Section A

1. Explain unary and binary operators available in C with an example?

2. a. Explain different output functions available C?
   b. Discuss the rules for naming a variable. Also differentiate between Variable and constants.

Section B

3. What do you understand by conditional statements? Explain different types of conditional statements with an example?

4. What is a storage class? Explain different types of storage classes available in C with an example.

Section C

5. What is a string? How a string can be declared? Explain different string functions available in C with a programming example.

6. What is a function? Differentiate between formal arguments and actual arguments. How an arguments are passed to a function. Write a program to find recursion of n number using function.

Section D

7. What is a structure? How it can be defined and initialized? Write a program to input the values of an employee structure consisting of emp_code, name, dept_code, designation and dept_name from the user and display it.

8. What a pointer? How can a pointer declared and used in a program? Explain different operations that can be used on pointers?

Exam Code: 117901   Paper Code: 1278

Programme: Bachelor of Computer Applications

(Semester – I)

Course Title: Introduction to Computers and

Information Technology

Course Code: BCAL-1115 ✓

Time Allowed: 3 Hours   **Max. Marks: 80**

Note: Attempt five questions in all, selecting atleast one question from each section. The fifth question may be attempted from any section. Each question carries 16 marks.

SECTION A

Q.1. What do you mean by Primary memory? Explain its different types. .
(16)

Q.2. What is Operating System? Explain the functions of Operating System.
(16)

SECTION B

Q.3. What are Data Scanning devices. Explain OMR, OCR, MICR and Bar Code Reader.   (16)

Q.4. Explain the Features of Word Processing and different parts of Word Window.   (16)

SECTION C

Q.5. Explain the following: (4*4)
    (a) Alignment   (b) Header & Footer
    (c) Page setup   (d) Border and Shading

Q.6. Explain: (8*2)
    (a) Different types of Views   (b) Themes

SECTION D

Q.7. Explain the Creation and Working of Pivot Table with examples. (16)

Q.8. what are Functions in MS Excel? Discuss Ten Mathematical functions with examples.   (16)

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(For Reappear Candidates (2021-22, 2022-23)) (BCA)

(For Reappear Candidates (2022-23)) (B.Sc. (IT))

Exam Code: 117901 (BCA)   Paper Code: 9133 (BCA)
       118001 (B.Sc. (IT)   9134 (B.Sc. (IT)

Bachelor of Computer Applications Semester-I

Course Title: Applied and Discrete Mathematics

Course Code: BCAL-1333

Bachelor of Science (Information Technology) Semester-I

Course Title: Applied and Discrete Mathematics

Course Code: BITL-1333

Time Allowed: 3 Hours   Max. Marks: 80

Note: Attempt five questions in all, selecting atleast one question from each section. The fifth question may be attempted from any section. Each question carries equal (16) marks. Use of Simple calculator is allowed.

(Section-A)

Q1) a) Find set builder form for $A = \{1/2, 2/3, 3/4, 4/5, \ldots\}$.

b) If $A = \{x| \ x \in N, x$ is a multiple of 4$\}$, $B = \{x| \ x \in N, x$ is a multiple of 6$\}$ and $C = \{x| \ x \in N, x$ is an odd number$\}$ then find $A \cap B \cup C$. Also find $A - B - C$.

c) State and prove De-morgan's law of set theory.

d) Find Dual of $B \cap \Phi \cup B^c = B^c$.

$$(4 \times 4 = 16)$$

Q2) a) In a society of 100 people, 80 knows how to speak Punjabi, 50 knows how to speak Hindi and 5 speak neither. How many students speak both languages? How many speak Punjabi only?

b) Let $R = \{(x, y)| \ x \geq y\}$ defined on $A = \{1, 2, 3, 4, 5\}$. Find domain and range of relation. Also, represent relation using digraph. Is it a POSET? Justify your answer.

c) In $N \times N$, show that the relation defined by $(a,b) \ R \ (c,d)$ if $a + d = b + c$ is an equivalence relation.

$$(6, 6, 4)$$

(Section-B)

Q3) a) Find whether A ∧ (B ∨ C) ⟷ (A ∧ B) ∨ (B ∧ C) is a contradiction, tautology or contingency.

b) Find the validity of argument "If population increases, the growth of nation will be slow. If the growth is slow the nation will be poor. The nation is not poor. Hence the population does not increase." (8 X 2 = 16)

Q4) a) Let W(x) be "x is a wild", G(x) be "x is of green color" and P(x) be "x is poisonous" over the universe of snake. Then what will be the formula for green colored wild snakes are poisonous.

Also find statement for $(\exists x)\ (W(x) \land \sim P(x))$.

b) Give direct proof of $q \to (s \to p)$, $\neg r \lor q$, $s \to r \to p$. (8 X 2 = 16)

(Section C)

Q5) a) Find atoms of D_{1001}. Also express all non-zero elements as sum of atoms. Also draw the Hasse diagram for it. Find all the subalgebras of it.

b) Simplify $\bar{A}B + BC + B\bar{C}$ using laws of Boolean algebra.

(10, 6)

Q6) a) Convert $F(A, B, C, D) = \bar{A}\bar{B}C + \bar{A}\bar{C} + \bar{A}D + ACD$ into canonical form.

b) Simply $F(A, B, C, D) = \Sigma\ (0, 2, 4, 6, 7, 11, 14, 15)\ \cup\ X(1, 5, 12)$.

(8 X 2 = 16)

(Section D)

Q7) a) Prove that $A^3 - 4A^2 - 3A + 11I = 0$ if

$$A = \begin{bmatrix} 1 & 3 & 2 \\ 2 & 0 & -1 \\ 1 & 2 & 3 \end{bmatrix}$$

b) Show matrix $A = \begin{bmatrix} 2 & 4 & 3 \\ 7 & -1 & -2 \\ 5 & 1 & 4 \end{bmatrix}$ as sum of symmetric and skew symmetric matrix.

(8 X 2 = 16)

Q8) Solve the following equations:-

$2x + 2y + z = 12$

$3x - y - 3z = 8$

$x + z = 5$

(16)

Exam Code: 117901   Paper Code: 9157

Programme: Bachelor of Computer Applications Semester I
Course Title: Applied and Discrete Mathematics
Course Code: BCAL-1335

Time Allowed: 3 Hours   Max. Marks: 60

Note: Attempt five questions, selecting one question from each section. The fifth question may be attempted from any section. All questions carry equal marks. Use of Simple calculator is allowed.

(Section-A)

Q1) a) Find set builder form for A = {2, 5, 10, 17, 26, ...}.

b) If A = {x| x ∈ N, x is multiple of 3}, B = {x| x ∈ Z} and C = {x| x ∈ N, x is odd} then find A ∩ B ∪ C. Also find A ∪ B − C.

c) State and prove Associative law of set theory.

d) Find Dual of A ∩ Φ ∪ A^c = X − A.

$$(4 \times 3 = 12)$$

Q2) a) In a survey of 1000 people, 450 admits they are suffering from high BP, 420 admits they have diabetes. and 230 persons are fully fit. How many people suffers from both diseases? How many high BP patients do not have diabetes?

b) Let R = {(x, y)| x != y} defined on A = {1, 3, 5, 7, 9}. Find domain and range of relation. Also, represent relation using digraph. Is it an equivalence relation? Justify your answer.

c) In N X N, show that the relation defined by (a,b) R (c,d) if ad = bc is an equivalence relation.

$$(4 \times 3 = 12)$$

(Section-B)

Q3) a) Find converse and contrapositive of "If it is Monday, Abhay will eat eggs in the evening."

b) Find the validity of argument "If Rosesh gets a Ph.D. degree, he will become a Professor. Rosesh will get Ph.D. only if he do good research. Rosesh does not do god research. So, he is not a Professor."

$$(6 \times 2 = 12)$$

Q4) a) Let W(x) be "x has wings", C(x) be "x is colorful" and F(x) be "x can fly" over the universe of birds. Then what will be the formula for some birds with colorful wings cannot fly. Also find statement for (∃x) (W(x) → F(x)).

b) Over the universe of positive integers find truth set for

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$p(n): 2n^2 + 3n = 0$

$q(n): n$ is a perfect cube, $n < 90$

(6 X 2 = 12)

(Section-C)

Q5) a) Find atoms of D_{70}. Also express all non-zero elements as sum of atoms. Also draw the Hasse diagram for it. Find all the subalgebras of it.

b) Simplify $A + \bar{A}B + B\bar{C}$ using laws of Boolean algebra.

(6 X 2 = 12)

Q6) a) Convert $F(A, B, C, D) = (\bar{A} + \bar{B} + C).(\bar{A} + \bar{C}).(\bar{A} + D).(A + C + \bar{D})$ into canonical form.

b) Simply $F(A, B, C, D) = \Sigma (2,3,4,5,6,9,10,11,13,14) \cup X(7,15)$.

(6 X 2 = 12)

(Section-D)

Q7) a) let $A = \begin{bmatrix} 3 & 2 & 9 \\ 6 & 11 & -2 \\ 1 & 7 & 6 \end{bmatrix}$. Show that $(AB)' = B'A'$

b) Show matrix $A = \begin{bmatrix} 2 & 4 & 3 \\ 7 & -1 & -2 \\ 5 & 1 & 4 \end{bmatrix}$ as sum of Hermitian and skew Hermitian matrix.

(6 X 2 = 12)

Q8) Solve the following equations:-

$x + 3y + z = 10$

$7x - 2y = 6$

$2x + 3y - 7z = 12$

(12)

For Reappear Candidates Only (2018-19)

Exam Code : 108301   Paper Code: 9148

Programme: Bachelor of Science (Honours) Agriculture

Semester-I

Course Title: Elementary Mathematics

Course Code: BACL-1339

Time allowed: 3 Hours   Max.Marks:40

Note: Attempt five questions in all selecting at least one from each section. Fifth question can be attempted from any section. Each question carries equal (8) marks.

SECTION-A

Q1. (a) Find the area of the triangle formed by the lines $x + y = 0, x - y = 0$ and $x = 5$.

(b) Find the angle between the lines $y - \sqrt{3}x - 5 = 0$ and $\sqrt{3}y - x + 6 = 0$.   (4,4)

Q2. (a) Find the equation of a line parallel to the line $3x - 4y + 2 = 0$ and passing through the point $(-2,3)$.

(b) A line passes through the point $(3,4)$ and sum of its intercepts on the axes is 14. Find its equation.   (4,4)

SECTION-B

Q3. Find the equation of the circle which passes through the points $(20,3)$, $(19,8)$ and $(2,-9)$. Also, find its centre and radius.   (8)

Q4. (a) Find the equation of circle whose ends of diameter are $(3,4)$ and $(-3,-4)$.

(b) Find the equation of a circle concentric with the circle $2x^2 + 2y^2 - 6x + 8y + 1 = 0$ and double of its radius.   (4,4)

SECTION-C

Q5. (a) If $y = \frac{ax+b}{cx+d}$, find $\frac{dy}{dx}$

(b) Examine for continuity of the function f where $f(x) = \begin{cases} 2x + 3 \; ; \; x \leq 2 \\ 2x - 3 \; ; \; x > 2 \end{cases}$ (4,4)

Q6. (a) Evaluate $\int_0^4 \frac{1}{\sqrt{x^2+2x+3}} \, dx$

(b) Differentiate e^{x^3} w.r.t. x (4,4)

SECTION-D

Q7. (a) Express the matrix A as the sum of a symmetric and a skew symmetric matrix where

$$A = \begin{bmatrix} 3 & -2 & -4 \\ 3 & -2 & -5 \\ -1 & 1 & 2 \end{bmatrix}$$

(b)   Find the value of a ,b ,c and d from the equation:

$$\begin{bmatrix} a-b & 2a+c \\ 2a-b & 3c+d \end{bmatrix} = \begin{bmatrix} -1 & 5 \\ 0 & 13 \end{bmatrix}.$$ (4,4)

Q8. (a) Find the inverse of given matrix if it exists $\begin{bmatrix} 1 & 2 & 3 \\ 2 & 5 & 7 \\ -2 & -4 & -5 \end{bmatrix}$

(b) If $A = \begin{bmatrix} -2 \\ 4 \\ 5 \end{bmatrix}, B = [1 \quad 3 \quad -6]$, verify that $(AB)' = B'A'$ (4,4)

FoR REAPPEAR CANDIDATES (2022-22.)

Exam Code: 117901   Paper Code: 9154.

Programme: Bachelor of Computer Applications Semester-I

Course Title: Introduction to Programming – C

Course Code: BCAH114

Time Allowed: 3 Hours   Max Marks: 50

Candidates are required to attempt five questions in all, selecting atleast one question from each section. The fifth question may be attempted from any section. Each question carries equal (10) marks.

Section A

1. Explain unary and binary operators available in C with an example?
2. a. Explain different output functions available C?
   b. Discuss the rules for naming a variable. Also differentiate between Variable and constants.

Section B

3. What do you understand by conditional statements? Explain different types of conditional statements with an example?

4. What is a storage class? Explain different types of storage classes available in C with an example.

Section C

5. What is a string? How a string can be declared? Explain different string functions available in C with a programming example.

6. What is a function? Differentiate between formal arguments and actual arguments. How an arguments are passed to a function. Write a program to find recursion of n number using function.

Section D

7. What is a structure? How it can be defined and initialized? Write a program to input the values of an employee structure consisting of emp_code, name, dept_code, designation and dept_name from the user and display it.

8. What a pointer? How can a pointer declared and used in a program? Explain different operations that can be used on pointers?

Exam Code: 117901   Paper Code: 9156

Programme:- Bachelor of Computer Applications, Semester-I
Course Title:- Introduction to Computers and Information Technology
Course Code:- BCAM-1115

Time: 3 Hours

Max. Marks: 50

Note: Attempt five questions in all selecting at least one question from each section. The fifth question may be attempted from any section. Each question can be attempted from any section. Each question carries equal (10) marks.

Section-A

Q1:-Explain Components of Computer System.   (10)

Q2:- What is Software? Explain its types.   (10)

Section-B

Q3:- Explain Dot Matrix Printer and Laser Printer.   (10)

Q4:-What do you understand by Memory? Explain its types in detail.   (10)

Section-C

Q5:- What is Word Processing? Explain its features.   (10)

Q6: Write steps to perform Transition and Multimedia Effects on PowerPoint.   (10)

Section-D

Q7:- How can we filter data from a Spreadsheet.   (10)

Q8:- Explain the Excel window in detail.   (10)

2123   20

For Reappear Candidates (2022-23)

Exam Code: 109101   Paper Code: 9128

Programme: Bachelor of Commerce (Honours) Semester I
Course Title: Communicative English
Course Code: BCOL-1102

Time Allowed: 3 Hours   Max Marks: 40

Note: Candidates are required to attempt Five questions, selecting at least one from each section. Question no. 5 can be attempted from any section. Each question carries 8 marks.

Section- A

Q1. Write the meanings of the following words:
  i.   Belated
  ii.   Delusion
  iii. Hamper
  iv.   Kudos
  v.   Linger
  vi.   Precursor
  vii. Verbose
  viii. Yowl

OR

Q2. Write the correct usage of the following words:
  i.   Accede on
  ii.   At a price of $20
  iii. Past experience
  iv.   Effects in
  v.   Opposite over
  vi.   Whether or not
  vii. Remember the fact that
  viii. Month of April

(1x8=8)

Section- B

Q3. You are Tej Anand. Write a letter to your friend telling him about an interesting book you have recently read.

OR

Q4. Write a report on Importance of Tourism in India.   (1x8=8)

Section-C

Q5. Complete the following sentences choosing the correct form of the verb:
  i.   In the trial, a number of seriously ill patients _____ with a new cancer drug.
        a) Are being treated   b) are treating
  ii.   Unlike traditional drugs, which attack all cells, this new drug _____ to attack cancer cells exclusively.
        a) Has been developed   b) has developed
  iii. What _____ in the field of gene therapy in the last ten years?
        a) Has been achieved   b) has achieved
  iv.   At first, the governments of most countries _____ the dangers of HIV/ AIDS to public health.
        a) Were underestimated   b) underestimated

  v.   Since AIDS first appeared, governments _____ enormous sums of money for research into the disease.
        a) Have been spent   b) have spent
  vi.   Because of rising costs in the 1990s, the British government _____ the number of hospitals beds that were available for patients.
        a) Was reduced   b) reduced
  vii. _____ that deaths from heart disease will increase in poorer countries over the next thirty years.

a) it is expected   b) it expects

viii.   In 1985, the World Health Organization decided to work toward eliminating polio in the Americas. The goal
_____ in 1999, when the last case of polio was successfully treated in Peru.
        a) Was achieved   b) achieved

OR

Q6. Complete the sentences with words from the list below:

> Fatal, tend, failures, survive, move, conduct, factors, determine, profit, link

i.   The first three tests of the new plane have been unsuccessful. These _____ will slow development of the aircraft.

ii.   Some people want the government to limit cigarette advertising. Others think that such a _____ would be difficult because many politicians receive support from the tobacco industry.

iii.   Some people _____ not to think about their health until they become ill. Clearly they still don't understand the importance of prevention.

iv.   Because of modern medicine, many people _____ diseases and injuries that would have killed them several decades ago.

v.   Most experts agree that a number of _____ played a part in the sinking of the Titanic in 1912.

vi.   Research has shown the _____ between smoking and an increased risk of heart disease.

vii.   Drug companies often invest millions of dollars to research a new drug before they start making a _____ from selling the drug.

viii.   After a new drug is developed and tested on animals, the next step is to _____ clinical trials with human subjects.

(1x8=8)

Section-D

Q7. Write the synonyms of the following:
i.   Important
ii.   Unable to read or write
iii.   Able to be seen
iv.   Things that belong to a person
v.   To employ
vi.   To change in order to fit new circumstances
vii.   To be before someone
viii.   To disagree with something

OR

Q8. In the following sentences, find the view markers, and write the opinions:
i.   Most people who have not lived in cultures other than their own assume that the rules for polite speech and behavior are universal.

ii.   At the end of their analysis, the authors conclude that political oppression is increasing in some parts of the world.

iii.   People who watch a great deal of television tend to perceive the world as more violent than it really is.

iv.   The researchers argue that much more information is needed before anyone can adequately describe how people adjust to life in a new culture.

v.   Among Americans, a common perception is that most immigrants enter the United States illegally.

vi.   Relations between the company and its workers worsened after the employees charged that the company wanted to destroy their union.

vii.   A frequent allegation that is made about people between the ages of eighteen and twenty-five is that they have no interest in politics.

viii.   The tendency of immigrants to live in their own ethnic communities is sometimes interpreted as evidence that they do not wish to become integrated into U.S. society.

(1x8=8)

FoR REAPPEAR CANDIDATES (2021-22), (2022-23.)

Exam Code: 508301

(80)

Paper Code: 9131-

Programme: Bachelor of Commerce (Honours)

Semester-I

Course Title: Descriptive Statistics for Business

Course Code: BCOL-1173

Time Allowed: 3 Hours

Max Marks: 80

Candidates are required to attempt five questions selecting at least one question from each Section. The fifth question may be attempted from any section. Each question carries 16 marks.

Section-A

1. Discuss the various types of data and their applications in economics and business

2. a) Distinguish between sampling error and sampling bias

   b) Distinguish between numerical and categorical variables

Section -B

3. The following data show the preference of students regarding cosmetics such as Revlon (R), Lakme(L), Mac (M) and Colourbar (C)

R R L M C L L M C M C L L R R

M L C C M M L L M M C L L M R

Construct a frequency distribution and a relative frequency distribution

b) A Bar Chart

c) A Pie-chart

4. Consider the following data regarding the marks of students

35 25 45 42 44 48 35 32 45 22 57

37 38 29 25 37 43 16 18 17 21 39

36 31 41 43 49 48 36 39 55 51 14

42

a) Construct a frequency distribution

b) Draw a histogram and a frequency curve

Section-C

5. Find out the Median and Mode

Size	1-10	11-20	21-30	31-40	41-50	51-60
Frequency	6	11	10	13	12	8

6. a) Calculate the standard deviation and coefficient of variations from the following data

X	0-10	10-20	20-30	30-40	40-50	50-60
F	6	5	7	10	8	4

b) Discuss merits and demerits of mean deviation.

Section –D

7. a) From the following data, find regression coefficients

Age of Husband	18	19	20	21	22	23	24	25	26
Age of Wife	16	16	17	17	18	18	18	19	20

a) Explain the properties of the correlation coefficient

8. a) Find out skewness from the following data

Marks	0-10	0-20	0-30	0-40	0-50	0-60	0-70
No. of students	4	9	15	24	30	36	40

b) write a short note on Kurtosis

FOR REAPPEAR CANDIDATES   (2022-23)

Exam Code: 508301   Paper Code: 9129
(20)

Programme: Bachelor of Commerce (Honours) Semester - I

Course Title: Microeconomics

Course Code: BCOL-1174

Time Allowed: 3 Hours   Max Marks: 80

Note: Attempt Five questions in all selecting atleast one question from each section. Fifth question can be attempted from any section. Each question carries (16) marks. Prepare neat and clean diagram, wherever required.

Section-A

1. What is Demand Curve? Describe shifts in demand curve.   16
2. What is Price Elasticity of Demand? How it can be measured?   16

Section-B

3. State and prove that Price Effect 'is the sum of Income Effect and Substitution Effect.   16
4. What is the Law of Variable Proportions? Is it universal in nature?   16

Section-C

5. What is Price Discrimination? Explain its conditions and justification.   16

6. What is Perfect Competition? Explain its features. Is this market a myth?   16

Section-D

7. What is Oligopoly? Explain its characteristics and show price rigidity under this market.   16

8. Write note on
   (a) Selling Costs
   (b) Profit Maximization Theories   (8,8)

For Reappear Candidates (Old Syllabus (2019-20))

Exam Code: 109101   Paper Code: 9130

Bachelor of Commerce (Honours) Semester –I
Course Title: Descriptive Statistics for Business
Course Code: BCOL-1176

Time Allowed: 3 hours   Max. Marks: 80

Note: Attempt five questions in all selecting at least one question from each Section. The fifth question can be attempted from any section. Each question carries equal (16) marks.

Section-A

1. Discuss the various types of variables.
2. a) Distinguish between population and sample.

   b) Distinguish between time-series data and cross-section data.

Section-B

3. Data for a sample of 50 students are there. Each observation indicates the preference for chocolates by students: Dairy Milk (D), Five Star (F), Perk (P), Nutties (N)

   F P D N P P F D P N N D D P F P N F D P N F P N D D F D F N P P F
   N F P N F P N F P P F N D N P D F
   i)   Construct frequency and relative frequency distributions
   ii) A pie chart
   iii) A bar chart
4. Marks of 53 students are given below:

Marks	0-10	10-20	20-30	30-40	40-50
No. of Students	8	12	18	10	5

   i)Construct a Histogram
   ii) Draw a frequency polygon and frequency curve

Section-C

5. Find out M, Q_1 and Q_3

Wages(Rs.)	0-2000	2000-4000	4000-6000	6000-8000	8000-10000
No. of workers	8	12	18	10	5

6. a) Calculate the standard deviation and coefficient of variations from the following data

Age	18	19	20	21	22
No. of Students	7	8	5	6	4

   b) Discuss merits and demerits of mean deviation.

Section–D

7. a) From the following data, find out   regression coefficients (b_{xy}, b_{yx}) and r

X	40	45	52	55	60	65
Y	72	75	80	77	82	85

   b) Find out the properties of correlation coefficients

8 . a) Find out skewness from the following data

X	40-45	45-50	50-55	55-60	60-65	65-70
F	5	7	10	6	5	4

   b) Write a short note on detecting outliers

FoR REAPPEAR CANDIDATES (2022-23).

Exam Code: 508301   Paper Code: 9132.

PROGRAMME: Bachelor of Commerce (Honours)

Course Title: Financial Accounting

Semster -I

Course Code: BCOM-1096

Time Allowed: 3 Hours   Max Marks: 50

Note: Candidates are required to attempt five questions in all, selecting at least one question from each section. The fifth question may be attempted from any section. Each question carries 10 marks.

Section-A

1. Explain the various Accounting Concepts & Conventions along with their implications.   10

2. What do you understand by Financial Accounting? Explain its objectives and limitations.   10

Section-B

3. "Every transaction in double entry book-keeping must have a double entry." Explain this statement. Give the rules of journalising with regard to different classes of accounts.   10

4. From the following transactions of Shivaji Patil, prepare a Cash Book: 10

Adjustments:

(I) Closing stock was Rs. 1,20,000.

(ii) Provide depreciation on building @ 10% p.a. and plant and machinery@20% p.a.

(iii) During the year goods worth Rs.5,000 were lost by Fire. Insurance company admitted the claim for Rs. 4,000.

(iv) Create provision for bad debts @5%.

(v) Goods worth Rs. 2,000 were withdrawn for personal use.

(vi) Included in plant and machinery was a machine purchased for Rs,00,000 on 1st October 2017.

(vii) Insurance premium paid in advance Rs. 500.

(Viii) Interest on loan @10% is due for the year.

10

8. Following is Receipts and Payments Account of Our Paradise Club for the year ending 31st March, 2010:

Receipts	Amount (₹)	Payments	Amount (₹)
Cash in hand	50	Salaries	2,400
Cash at bank	565	Rent	720
Subscription (including ₹100		Postage	30
for 2008-09 and ₹150 of 2010-	4,550	Printing & stationary	255
11)	2,000	Electricity charges	300
Interest on investments	25	Meeting expenses	150
Bank interest	300	Purchase of library books	1,000
Sale of furniture		Investment bonds	1,000
		Cash in hand	155
		Cash at bank	1,480
	7,490		7,490

Date	Transaction	Amount (₹)
2018		2,000
Aug 1	Cash in hand	
Aug 1	Cash at bank	7,900
Aug 3	Goods bought for cash	1,800
Aug 7	Received from Lal bhai by cheque in settlement of their accounts for ₹10,000	9,800
Aug 9	Paid the above cheque into bank	-
Aug 13	Cash sales ₹7,000 of which ₹5,000 banked	-
Aug 15	Settled Hart's account for ₹8,000 by cheque after deducting there from 2.5% cash discount	-
Aug 18	Paid electric bill in cash	450
Aug 19	Bought postage stamps	150
Aug 23	Paid insurance premium by cheque	1,200
Aug 24	Drew from bank for office use	5,000
Aug 27	Lakshman forwarded a cheque for ₹2,850 in settlement after deducting 5%	
Aug 28	Banked the above cheque	-
Aug 29	Paid salaries in cash	5,000
Aug 30	Tara Chand sent us a cheque for ₹4,700 in settlement of his account of ₹4,950 (informed him that amount deducted as discount cannot be allowed)	-
Aug 31	Banked the above cheque	-

Section- C

5. Nitin & Co. purchased grinding machine on 1st January 2005 for Rs. 9,250 and immediately spent Rs.750 on its erection. On 1st July,2006 it purchased another machine for Rs. 2,500 and on 1st July,2007, it sold off the first machine purchased in 2005 for Rs.7,000 and on the same date it purchased another machine for 6,250. On 1st July,2008, the second machine purchased for

Rs.2,500 was also sold off for Rs. 500. Depreciation was provided on machinery on written down value method @10% p.a. Give machinery account for four years commencing from January 1,2005. Calculations are to be made to be nearest rupee. **10**

6. Explain the procedure of rectification of one-sided and two-sided errors by taking suitable examples. **10**

Section- D

7. Sen submits to you the following trial balance. Prepare Trading and Profit & Loss Account for the year ending 2017 and Balance Sheet as on 31st December 2017.

Heads	Debit (₹)	Credit (₹)
Opening stock	50,000	
Furniture	1,00,000	
Plant and machinery	3,50,000	
S. Debtors	50,000	
Wages	5,000	
Salaries	12,000	
Bad debts	1,000	
Purchases	1,20,000	
Power & fuel	1,500	
Telephone charges	2,000	
S. Creditors		60,000
Sales		3,80,000
Return inward	10,000	
Return outward		15,000
Freight	2,500	
Capital		5,82,000
Commission		5,000
General Expenses	3,000	
Insurance	5,000	
Cash	15,000	
Bank	25,000	
Building	4,00,000	
Drawings	40,000	
Loan from a friend		1,50,000
Total	11,92,000	11,92,000

Prepare Income and Expenditure account and Balance Sheet as on 31-03-2010 after considering the following:

(i) On 1st April,2009 the club had the following Assets and Liabilities:

Investments	Rs. 40,000
Furniture	Rs. 3,000
Library books	Rs. 5,000
Outstanding rent	Rs. 60
Outstanding salary	Rs. 200

(ii) On 31st March, 2010 rent of Rs. 80 and salary of Rs. 250 were in arrears.

(iii) The book value of furniture sold was Rs.250.

10

FOR REAPPEAR CANDIDATES (2022-23)

Lib KMV-I 6/12/23
(E)

Exam Code: 121101   Paper Code: 9118·
    (90)

Programme: Bachelor of Commerce
Semester-I

Course Title: Financial Accounting

Course Code: BCRL-1093

Time Allowed: 3 Hours   Max Marks: 40

Note: Students are required to attempt five questions in all selecting one question from each section and fifth question can be attempted from any section. Each 'question carries 8 marks. Use of Calculator is allowed.

Section A

1. Explain the various objectives, advantages and limitations of financial accounting.
2. Discuss the various Accounting Concepts and Conventions.

Section B

3. Samudra Company commenced a voyage on 1st October 2018 from Bombay to Madras. The details of complete voyage i.e. Bombay to Madras and back to Bombay were as follows:

	Rs.		Rs.
Coal Consumption	70,000	Freight	4,00,000
Port Charges	14,000	Stock Consumed	30,000
Depreciation	40,000	Salaries	48,000
Sundry Expenses	4,000	Insurance-Ship	40,000
Wages	8,000	Insurance-Freight	16,000

Primage and address commission are 10% and 5% respectively. Freight relating to the return journey amounted to Rs. 1,20,000 only. The accounts are closed on 31st December. The ship was on her half way back to Bombay on the date of closing the accounts. Prepare Voyage Account upto 31st December, 2018.

4. Explain the accounting treatment of following items in Final accounts—

   a. Outstanding Expenses

   b. Provision for Bad Debts

   c. Depreciation

   d. Goods given away as charity

Section C

5. Ram consigned goods costing Rs.1,60,000 to Sham. The terms of consignment were:

a) consignee to get a commission of 5% on cash sales and 4% on credit sales.

b) Goods taken by consignee himself or goods lost through his negligence shall be valued at cost plus 12.5 per cent and no commission will be allowed on them.

The expenses incurred by the consignor were carriage and freight Rs.6,720 and insurance Rs.3,440. The consignor received Rs. 50,000 as advance against the consignment. Account sales together with a draft for the balance due was received by the consignor, showing the following position.

Goods costing Rs.1,28,000 were sold for cash at Rs.1,40,000 and on credit for Rs. 1,08,000. Goods costing Rs.8,000 were taken by Sham and goods costing Rs.4,000 were lost through Sham's negligence. The expenses incurred by Sham were: Advertisement Rs.1,020, other selling expenses Rs.1,080.

Show the ledger accounts in the books of Ram

6. What do you mean by Joint Venture? Explain the accounting treatment of joint venture transactions when separate set of books are maintained?

Section D

7. Discuss the objectives and merits of preparing departmental accounts. Also explain and illustrate the basis of allocation of various indirect expenses among various departments.

8. Explain the accounting treatment of Stock and Debtors system.

Exam Code: 121101   Paper Code: 1256
        (50)

Programme: Bachelor of Commerce
Semester-1

Course Title: Financial Accounting

Course Code: BCRL-1093

Time Allowed: 3 Hours   Max Marks: 80

Note: Students are required to attempt five questions in all selecting one question from each section and fifth question can be attempted from any section. Each 'question carries 16 marks. Use of Calculator is allowed.

Section A

1. Explain the various objectives, advantages and limitations of financial accounting.
2. Discuss the various Accounting Concepts and Conventions.

Section B

3. Samudra Company commenced a voyage on 1st October 2018 from Bombay to Madras. The details of complete voyage i.e. Bombay to Madras and back to Bombay were as follows:

	Rs.		Rs.
Coal Consumption	70,000	Freight	4,00,000
Port Charges	14,000	Stock Consumed	30,000
Depreciation	40,000	Salaries	48,000
Sundry Expenses	4,000	Insurance-Ship	40,000
Wages	8,000	Insurance-Freight	16,000

Primage and address commission are 10% and 5% respectively. Freight relating to the return journey amounted to Rs. 1,20,000 only. The accounts are closed on 31st December. The ship was on her half way back to Bombay on the date of closing the accounts. Prepare Voyage Account upto 31st December, 2018.

4. Explain the accounting treatment of following items in Final accounts-

a. Outstanding Expenses

b. Provision for Bad Debts

c. Depreciation

d. Goods given away as charity

Section C

5. Ram consigned goods costing Rs. 1,60,000 to Sham. The terms of consignment were:

a) consignee to get a commission of 5% on cash sales and 4% on credit sales.

b) Goods taken by consignee himself or goods lost through his negligence shall be valued at cost plus 12.5 per cent and no commission will be allowed on them.

The expenses incurred by the consignor were carriage and freight Rs.6,720 and insurance Rs.3,440. The consignor received Rs. 50,000 as advance against the consignment. Account sales together with a draft for the balance due was received by the consignor, showing the following position.

Goods costing Rs.1,28,000 were sold for cash at Rs.1,40,000 and on credit for Rs. 1,08,000. Goods costing Rs.8,000 were taken by Sham and goods costing Rs.4,000 were lost through Sham's negligence. The expenses incurred by Sham were: Advertisement Rs.1,020, other selling expenses Rs.1,080.

Show the ledger accounts in the books of Ram

6. What do you mean by Joint Venture? Explain the accounting treatment of joint venture transactions when separate set of books are maintained?

Section D

7. Discuss the objectives and merits of preparing departmental accounts. Also explain and illustrate the basis of allocation of various indirect expenses among various departments.

8. Explain the accounting treatment of Stock and Debtors system.

KMV-I
29|11|23 (E)

Exam Code: 121101   Paper Code: 1257
    (50)

Programme: Bachelor of Commerce
Semester-I

Course Title: Business Organisation

Course Code: BCRL-1094

Time Allowed: 3 Hours   Max Marks: 80

Note: Attempt 5 questions in all selecting atleast one question from each section. The fifth question may be attempted from any section. Each question carries (16) marks.

SECTION-A

1. Explain the concept of business ethics and its relevance in competitive era.   16

2. (a) Differentiate between business and profession   8

   (b) Differentiate between Trade and Commerce.   8

SECTION-B

3. "One man control is best in the world if that one man is big enough to manage everything." Comment.   16

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4. Define Co-operative society and discuss various types of co-operative societies. Also discuss its merits and demerits. 16

SECTION —C

5. What do you mean by Small Scale Operations in Industry? Discuss the limitations of Small Scale Operations. 16

6. Explain in detail the objective, composition and functions performed by District Industrial Centers. 16

SECTION —D

7. Define various Business Combinations. Illustrate with examples the factors which lead to business combinations. 16

8. Explain in detail the objectives and functions of Chamber of Commerce. 16

For Reappear Candidates (2022-23)

Exam Code: 121101   Paper Code: 9117.
(50)

Programme: Bachelor of Commerce
Semester-I

Course Title: Business Organisation

Course Code: BCRL-1094

Time Allowed: 3 Hours   **Max Marks:** 40

Note: Attempt 5 questions in all selecting atleast one question from each section. The fifth question may be attempted from any section. Each question carries (8) marks.

SECTION-A

1. Explain the concept of business ethics and its relevance in competitive era.
2. (a) Differentiate between business and profession
   (b) Differentiate between Trade and Commerce.

SECTION-B

3. "One man control is best in the world if that one man is big enough to manage everything." Comment.

4. Define Co-operative society and discuss various types of co-operative societies. Also discuss its merits and demerits.

SECTION —C

5. What do you mean by Small Scale Operations in Industry? Discuss the limitations of Small Scale Operations.

6. Explain in detail the objective, composition and functions performed by District Industrial Centers.

SECTION —D

7. Define various Business Combinations. Illustrate with examples the factors which lead to business combinations.

8. Explain in detail the objectives and functions of Chamber of Commerce.

Exam Code: 121101   Paper Code: 1258
    (50)

Programme: Bachelor of Commerce
Semester-I

Course Title: Business Communication

Course Code: BCRL-1095

Time Allowed: 3 Hours   Max Marks: 80

Note: Attempt five questions in all, selecting at least one question from each section. The fifth question may be attempted from any section. Each question carries 16 marks.

Section-A

1. What do you understand by Business Communication? Give its importance and objectives.
2. Distinguish between Internal and External Communication. Give examples of each.

Section-B

3. Elaborate on the principles of oral presentation. Describe the factors affecting presentation.
4. What is business etiquette. Discuss the importance of business etiquettes.

Section-C

5. Draft a letter requesting your bank to extend the existing overdraft facility offered to your business citing the reasons for such an extension.

6. Draft a letter to the PSPCL complaining about the wrong meter reading on your electricity bill, requesting them to make the necessary corrections in the bill.

Section-D

7. What is a resume and elaborate the factors to be considered in resume writing. Draft your own resume.

8. What is the importance of an interview. Provide the guidelines for success in an interview.

FOR REAPPEAR CANDIDATES (2022-23)

Exam Code: 121101   Paper Code: 9123.

Programme: Bachelor of Commerce
Semester-I

Course Title: Business Communication

Course Code: BCRL-1095

Time Allowed: 3 Hours   Max Marks: 40

Note: Attempt five questions in all, selecting at least one question from each section. The fifth question may be attempted from any section. Each question carries 8 marks.

Section-A

1. What do you understand by Business Communication? Give its importance and objectives.
2. Distinguish between Internal and External Communication. Give examples of each.

Section-B

3. Elaborate on the principles of oral presentation. Describe the factors affecting presentation.
4. What is business etiquette. Discuss the importance of business etiquettes.

Section-C

5. Draft a letter requesting your bank to extend the existing overdraft facility offered to your business citing the reasons for such an extension.

6. Draft a letter to the PSPCL complaining about the wrong meter reading on your electricity bill, requesting them to make the necessary corrections in the bill.

Section-D

7. What is a resume and elaborate the factors to be considered in resume writing. Draft your own resume.

8. What is the importance of an interview. Provide the guidelines for success in an interview.

Exam Code: **121101**   Paper Code: 1259
   (50)

Programme: Bachelor of Commerce
Semester-I

Course Title: Business Statistics

Course Code: BCRL-1176

Time Allowed: 3 Hours   Max Marks: 80

Note: Students are required to attempt five questions in all, selecting at least one question from each section. The fifth question may be attempted from any section. Each question carries 16 marks. Simple calculator can be allowed to make necessary calculations.

Section -A

1. Define statistics. Also give limitations of statistics
2. Find out arithmetic mean from the following data.

Marks	More than 10	More than 20	More than 30	More than 40	More than 50	More than 60	More than 70	More than 80	More than 90
Frequency	140	133	118	100	75	45	25	9	2

Section —B

3. Two automatic filling machines A and B are used to fill tea in 500 grams cartons. A random sample of 100 canons on each machine showed the following:

Tea Contents (in grams)	485-490	490-495	495-500	500-505	505-510	510-515
Macchine A	12	18	20	22	24	4
Machine B	10	15	24	20	18	13

Comment on the performance of machines in terms of coefficient of variations.

4. Differentiate between correlation and regression. Explain the uses of regression in Economics.

Section C

5. What is index number? What are the various problems faced while construction index numbers?

6. From the following data prove that Fisher's Index is an ideal index.

Commodities	Base Year		Current Year	
	Price	Output	Price	output
A	5	00	6	60
B	6	48	7	105
C	4	68	5	100
D	7	105	8	96
E	8	96	9	135

Section D

7. From the following data compute the trend values using least square method. Also find the errors.

Year	2010	2011	2012	2013	2014	2015	2016	2017
Sales in lakhs	56	55	51	47	42	38	35	32

8. (i) From a class of 3 boys and 3 girls, committee of 4 is to be formed so that 2 are boys and 2 are girls. Find out the possible number of ways.

(ii) A card is drawn at random from a well mixed pack of cards. What is the probability that it is a heart or a queen?

FoR REAPPEAR CANDIDATES (2022-23.)

Exam Code: 121101

Paper Code: 9121

Programme: Bachelor of Commerce
Semester-I

Course Title: Business Statistics

Course Code: BCRL-1176

Time Allowed: 3 Hours

Max Marks: 40

Note: Students are required to attempt five questions in all, selecting at least one question from each section. The fifth question may be attempted from any section. Each question carries 8 marks. Simple calculator can be allowed to make necessary calculations.

Section -A

1. Define statistics. Also give limitations of statistics
2. Find out arithmetic mean from the following data.

Marks	More than 10	More than 20	More than 30	More than 40	More than 50	More than 60	More than 70	More than 80	More than 90
Frequency	140	133	118	100	75	45	25	9	2

Section —B

3. Two automatic filling machines A and B are used to fill tea in 500 grams cartons. A random sample of 100 canons on each machine showed the following:

Tea Contents (in grams)	485-490	490-495	495-500	500-505	505-510	510-515
Machine A	12	18	20	22	24	4
Machine B	10	15	24	20	18	13

Comment on the performance of machines in terms of coefficient of variations.

4. Differentiate between correlation and regression. Explain the uses of regression in Economics.

Section C

5. What is index number? What are the various problems faced while construction index numbers?

6. From the following data prove that Fisher's Index is an ideal index.

Commodities	Base Year		Current Year	
	Price	Output	Price	output
A	5	60	6	60
B	6	48	7	105
C	4	68	5	100
D	7	105	8	96
E	8	96	9	135

Section D

7. From the following data compute the trend values using least square method. Also find the errors.

Year	2010	2011	2012	2013	2014	2015	2016	2017
Sales in lakhs	56	55	51	47	42	38	55	32

8. (i) From a class of 3 boys and 3 girls, committee of 4 is to be formed so that 2 are boys and 2 are girls. Find out the possible number of ways.

(ii) A card is drawn at random from a well mixed pack of cards. What is the probability that it is a heart or a queen?

For Reappear Candidates (Old Syllabus (2020-21))

Exam Code: 121101   Paper Code: 9122

Programme: Bachelor of Commerce (Semester –I)
Course Title: Business Statistics
Course Code: BCRL–1176

Time Allowed: 3 Hours   Maximum Marks: 80

Note: The paper consists of four sections – A, B, C and D. Candidates are required to attempt five questions selecting at least one question from each Section. The fifth question may be attempted from any section. Each question carries 16 marks.

SECTION-A

Q 1. Discuss scope and limitation of Statistics.

Q 2. Find out median

Rainfall(inches)	10-15	15-20	20-25	25-30	30-35	35-40	40-45
No. of days	3	5	9	12	5	4	2

SECTION-B

Q 3. a) Calculate the standard deviation from the given below

X	5-10	10-15	15-20	20-25	25-30	30-35
Y	2	9	29	24	11	6

b) Discuss the merits and demerits of quartile deviation

Q 4. (a) Explain meaning and types of correlation and also discuss the difference between correlation and regression.

(b) Following are the figures for fertilizer and output. Find the spearman's rank correlation.

fertilizer	35	40	25	55	85	90	65	55	45	50
output	10	10	11	14	15	13	10	12	14	11

SECTION-C

Q 5. Calculate price index using Fisher's method and also prove that it satisfies time reversal and factor reversal tests

Commodity	Price base year	Quantity base year	Price current year	Quantity current year
A	10	50	12	60
B	8	20	9	30
C	5	35	7	40
D	6	25	8	45

Q 6 Discuss the problems faced in the construction of index number. Why is Fisher's method called an ideal index number.

SECTION-D

Q7. (a) Discuss the various components of time series analysis.

(b) Fit by least square method and also find demand for the year 1982

Year	1975	76	77	78	79	80	84	85
Demand	10	12	15	20	30	40	70	75

Q 8. (a) What is the probability of getting a head in throw of a coin.

(b) A box contains 4 red, 5 white , 8 black and 3 yellow balls. What is the probability of getting a red or yellow ball at random in single draw of one ball?

Exam Code: 121101   Paper Code: 1260
    (50)

Programme: Bachelor of Commerce
Semester-I

Course Title: Computer Fundamentals

Course Code: BCRM-1127

Time Allowed: 3 Hours   Max Marks: 50

Note: Students are required to attempt five questions in all, selecting at least one question from each section. The fifth question may be attempted from any section. Each question carries 10 marks.

Section-A

1. What do you mean by computer? Explain different storage devices that can be used for storage of information?   10

2. Explain any seven different application areas of computer?   10

Section-B

3. What do you mean by page setup? Write down the steps to perform different options available in page setup?   10

4. Write down the steps to insert header and footer on a document.   10

Section-C

5. What is a table? Write down the steps to create a table?

    10

6. How we can insert the border on the page. Explain.

    10

Section-D

7. What do you understand by graph? How we can insert a graph in an excel?   10

8. What do you mean by filtering? How can we apply on filtering on the data.   10

FoR REAPPEAR CANDIDATES (2022-23·)

Exam Code: 121101
(20)

Paper Code: 9120

Programme: Bachelor of Commerce
Semester-I

Course Title: Computer Fundamentals

Course Code: BCRM-1127

Time Allowed: 3 Hours Max Marks: 25.

Note: Students are required to attempt five questions in all, selecting at least one question from each section. The fifth question may be attempted from any section. Each question carries 5 marks.

Section-A

1. What do you mean by computer? Explain different storage devices that can be used for storage of information? 5·
2. Explain any seven different application areas of computer? 5

Section-B

3. What do you mean by page setup? Write down the steps to perform different options available in page setup? 5·
4. Write down the steps to insert header and footer on a document. 5·

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Section-C

5. What is a table? Write down the steps to create a table?

    5.

6. How we can insert the border on the page. Explain.

    5.

Section-D

7. What do you understand by graph? How we can insert a graph in an excel? **5.**

8. What do you mean by filtering? How can we apply on filtering on the data. **5.**

Paper Code: 1124

Programme	Exam Code	Course Code
Bachelor of Science (Economics)	121301	BECL-1453
Bachelor of Arts	121201	BARL-1453

Course Title: Quantitative Techniques (Quantitative Techniques-I)

Semester-I

(30)

Time Allowed: 3 Hours   Max Marks: 80

Note: Candidates are required to attempt five questions in all, selecting at least one question from each section. The fifth question may be attempted from any section. Each question carries 16 marks.

SECTION-A

1. (a) If the demand and supply equations are given by

$$p = 12 - 3q, \quad p = \frac{3}{2}q + 2.$$

Find the equilibrium price and quantity before and after tax $t = \frac{1}{2}$ per unit imposed.

(8 Marks)

(b) The product of two consecutive odd whole numbers is 323. Find the numbers.

(8 Marks)

2. (a) A firm produces 550 T.V. during its first year. The sum total of the firm's production at the end of 5 years was 3000. Estimate by how many units, production increased each year? Also find the level of output for the 10th year.

(8 Marks)

(b) Find the sum of n terms of the series

$$5 + 55 + 555 + \ldots$$

(8 Marks)

SECTION-B

3. (a) Find the equation of the straight line which passes through the points (3,9) and (4,8). Show that the point (5,7) also lies on it.

(8 Marks)

(b) If $Cosx = \frac{5}{13}$, x lies in 4th quadrant, find the values of other five trigonometrical ratios.

(8 Marks)

4. (a) (i) Prove that

$$^{9}C_{5} + {}^{9}C_{4} = {}^{10}C_{5}.$$

(4 Marks)

(ii) How many 5-letter code words are possible, using the first 15 letters of English alphabet if no letter can be repeated?

(4 Marks)

(b) If $A = \{1,2,4,5\}$, $B = \{2,3,5,6\}$ and $C = \{4,5,6,7\}$, then verify that

$$A - (B \cup C) = (A - B) \cap (A - C).$$

(8 Marks)

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SECTION-C

5. (a) If $f(x) = \dfrac{2x}{x-1}$, find $f[f\{f(3)\}]$ (8 Marks)

(b) Sketch the parabola $y = 3x - x^2$. (8 Marks)

6. (a) Show that the function $f(x) = \begin{cases} \dfrac{x^2 - 16}{x - 4} & \text{if } x \neq 4 \\ 8 & \text{if } x = 4 \end{cases}$ is continaous at x=4. (8 Marks)

(b) Evaluate $\displaystyle\lim_{x \to 1} \dfrac{\sqrt{3+x} - \sqrt{5-x}}{x^2 - 1}$. (8 Marks)

SECTION-D

7. (a) If $4x^2 - 5xy + 7y^2 - 6y = 5$, find $\dfrac{dy}{dx}$. (8 Marks)

(b) If $x = \dfrac{5t-2}{t^2+1}, y = \dfrac{3t-2}{t^2+1}$, find $\dfrac{dy}{dx}$. (8 Marks)

8. (a) Differentiate $(x^2 - 4)^{2x+3}$ with respect to x. (8 Marks)

(b) The demand curve of a monopolist is given by
$$p = 200 - 2x - 3x^2.$$
Find marginal revenue for any level of output x and find the value of marginal revenue when x=3. (8 Marks)

For Reappear Candidates (Old Syllabus (2022-23))

Exam Code: 119601   **Paper Code: 9152**

BACHELOR OF SCIENCE (FASHION DESIGNING), SEMESTER: I

COURSE TITLE: BASICS OF COMPUTER

COURSE CODE: BFDM-1126

TIME: 3HRS.   **MAX. MARKS: 50**

NOTE: - Attempt five questions in all selecting at least one question from each section, fifth question may be attempted from any section. Each questions carries equal (10) marks.

Section-A

Q1:- Draw a block diagram of the computer system. Explain the working of each unit.

Q2:- What do you mean by data processing? Explain various activities involved in data processing.

Section-B

Q3:- Classify the computer according to its various generations.

Q4:- What do you mean by output device? Explain the working of one output device in detail.

Section-C

Q5:- Explain various options available in the Page Setup option in MS-Word.

Q6:- Differentiate between the following with the help of an example:

   a) Cut and Copy, Copy and Paste
   b) Find and Replace

Section-D

Q7:- Discuss the use of computers in the Fashion Industry. Name some software used in the Fashion Industry. Explain CAD in detail.

Q8:- Why is sketching important in the design process? What are its various uses? Explain with examples.

2123   20

Exam Code: 119601　　　　　　　　Paper Code: 1295
(40)

Programme: Bachelor of Science (Fashion Designing)
Semester-1

Course Title: Basics of Sewing-I

Course Code: BFDM-1235

Time Allowed: 3 Hours　　　　　　　　Max Marks: 50

Note: Attempt five questions in all, selecting one question from each section. Fifth question can be selected from any section. All questions carry equal (10) marks

Section A

1. Write in detail about cutting and sewing equipment used in Garment construction.
2. Discuss in detail about tools and equipment used for marking during construction of the garments.

Section B

3. Draw a well labelled diagram of a sewing machine and explain its various parts.
4. What are the most common problems we face during the use of sewing machine, also discuss their causes and adjustments.

Section C

5. What do you know about counter seam and Montua maker seam and their application in garment construction.

6. Discuss pleats, its various types and their use as fullness treatment in different garments.

Section D

7. Define placket, also write about different types of plackets used in different garments.

8. What are different types of pockets used in upper and lower garments.

Exam Code: 119601   Paper Code: 1296

Bachelor of Science (Fashion Designing) Semester-I

Course Title: Traditional Textiles

Course Code: BFDM-1237

Time Allowed: 3Hrs.   Max. Marks: 40

NOTE—Attempt five questions in all, selecting atleast one question from
each section. The fifth question may be attempted from any section. Each
question carries 8 marks.

Section -A

1. Write a brief note on carpets of India?   8
2. Explain in detail about printed textile of India with their traditional
   designs, making process, tools, and materials?   8

Section -B

3. Discuss about Bandhani textile in detail?   8
4. Write a note on Pochampalli textile?   8

Section -C

5. Explain history, motifs, colours, and manufacturing process of Chanderi
   saree?   8
6. Write a brief note on Brocade textile with their traditional design and
   types?   8

Section -D

7. Write a brief note on origin, material used, stitches, design used in
   Phulkari embroidery?   8
8. Explain Chikankari embroidery in detail?   8

2123   30

Exam Code: 108201   Paper Code: 1206

Bachelor of Science (Home Science) Semester I
Course Title: **Introduction to Human Development**
Course Code: BHSL-1283

Time Allowed: 03 Hours   Max. Marks: 40

Note: Attempt five questions in all, selecting at least one question from each section. The fifth question may be attempted from any section. Each question carries 08 marks.

Section -A
1. Explain the scope and opportunities of human development.8
2. Write about the domains of development in detail. 8

Section -B
3. Discuss the various stages of pre-natal development. 8
4. Write a short note on factors affecting pre-natal development.   8

Section -C
5. Discuss about the birth process and complications during birth.   8
6. Explain the types of delivery. Write the characteristics and care required to pre-term baby.

Section -D
7. Briefly explain how to take care of new born?
8. Write about the psychological aspects of parenthood.

[MS B]   [EVE]
09-12-2023

Exam Code: 119701   Paper Code: 1207
   (20)

Programme: Bachelor of Science (Home Science)
Semester-I

Course Title: Hygiene

Course Code: BHSL-1284

Time Allowed: 3 Hours   Max Marks: 60

Attempt five questions in all, selecting at least one question
from each section. The fifth question may be attempted
from any section. Each question carries 12 marks.

Section A

1. Define Immunity. Discuss the importance of Immunity in
   present COVID times.
2. "Immunisation schedule is of prime importance for
   maternal and child health". Justify the statement.

Section B

3. Discuss the symptoms, prevention and control of food
   poisoning.

4. Discuss the causes and mode of spread of
   (1) Jaundice
   (2) Measles
   (3) Dysentery
   (4) Chicken

Section C

5. Discuss in detail causes, mode of spread, symptoms and prevention and control of any one disease caused by vector.
6. Discuss in detail causes, mode of spread, symptoms and prevention and control of any one disease caused by sexual contact.

Section D

7. Discuss the various sources of contamination of water. Differentiate between water purification at home and commercial method of purification of water.
8. Discuss any one method of purification at home OR modem method of purification of water.

Exam Code: 119701

Paper Code: 9143

Bachelor of Science (Home Science) Semester-I
Course Title: Punjab History and Culture
Course Code: BHSL-1431

Examination Time:3 Hours

Marks: 40

Note: Attempt 5 questions in 600 words, by atleast selecting One Question from each Unit and the 5th question may be attempted from any of the four Units Each question will carry 8 marks.

Unit-I

1. Discuss the Physical Features of Punjab.

   पंजाब की भौतिक विशेषताओं का वर्णन कीजिए।

2. Briefly write the Sources of the ancient History of Punjab.

   पंजाब के प्राचीन इतिहास के स्रोतों को संक्षेप में लिखिए।

Unit-II

3. Describe the Social and religious life of people of Indus Valley People.

   सिंधु घाटी के लोगों के सामाजिक और धार्मिक जीवन का वर्णन करें।

4. Explain the theories regarding the original home of the Aryans

   आर्यों के मूल निवास स्थान के बारे में विभिन्न सिद्धांतों का उल्लेख करें

Unit-III

5. Give and account of the social and religious life of Vedic Age.

   वैदिक युग के सामाजिक और धार्मिक जीवन का विवरण दीजिए।

6. Analysis the Economic and Social life of Later Vedic Period .

   उत्तर वैदिक काल के आर्थिक एवं सामाजिक जीवन का विश्लेषण करें।

Unit-IV

7. Describe the life and teachings of Mahatma Buddha.

   महात्मा बुद्ध के जीवन और शिक्षाओं का वर्णन करें।

8. Give a brief account of teachings of Lord Mahavira?

   भगवान महावीर के शिक्षाओं का वर्णन करें?

Exam Code: 119701   Paper Code: 1210

Programme: Bachelor of Science (Home Science)

Semester: I

Course Title: Computer Basics

Course Code: BHSM-1127

40

Time Allowed: 3 Hours   Max. Marks: ~~50~~

Note: Attempt five questions in all, selecting atleast one question from each section. The fifth question may be attempted from any section. Each question carries 8 marks.

(Section A)

Q1) a) Explain block diagram of computer system in detail.
     b) What is software?   (6, 2)
Q2) a) Explain the working of keyboard. Also explain different set of keys available on standard keyboard.
     b) Explain the working of laser and inkjet printers.   (2 X 4 = 8)

(Section B)

Q3) What is word processing software? Explain its features along with their merits and limitations.   (8)
Q4) a) Explain the use of header and footer in a document.
     b) How a picture is inserted in a word document?   (2 X 4 = 8)

(Section C)

Q5) Explain different views of a presentation in detail.   (8)
Q6) a) How a presentation is saved? How a new slide is inserted into the presentation?
     b) What is the use of find and replace?   (2 X 4 = 8)

(Section D)

Q7) a) What is email? List its advantages and limitations.
     b) What do you mean by forwarding a message? How it is different from reply?   (2 X 4 = 8)
Q8) a) What are different types of internet connectivity?
     b) What do you mean by WWW?   (2 X 4 = 8)

2123   10

Exam Code: 119701   Paper Code: 1208
   (20)

Programme: Bachelor of Science (Home Science)
Semester-I

Course Title: Basic Food and Nutrition

Course Code: BHSM-1285

Time Allowed: 3 Hours   Max Marks: 60

Note: Students are required to attempt any five questions in all, selecting at least one question from each section. The fifth question may be attempted from any section. Each question carries 12 marks.

Section-A

1. What is malnutrition? What are the causes of malnutrition? (12)
2. Explain in detail the seven food group plan. (12)

Section-B

3. What is the effect of cooking on food nutrients? (12)
4. Explain the different methods of cooking food using dry heat. Explain any one in detail. (12)

Section-C

5. Explain in detail the classification of carbohydrates. What are the effects of deficiency of carbohydrates? (12)

6. Give classification and functions of fat. (12)

Section-D

7. What is BMR? Explain in details the factors affecting BMR in detail. (12)

8. Explain determination of basal metabolism. (12)

Exam Code: 119701   Paper Code: 1209
    (20)

Programme: Bachelor of Science (Home Science)
Semester-I

Course Title: Applied Art

Course Code: BHSM-1286

Time Allowed: 3 Hours   Max Marks: 60

Note: Attempt five questions in all, selecting at least one question from each section. The fifth question may be attempted from any section. Each question carries 12 marks.

Section-A

1. Write short notes on: (3*4=12)
   a. Importance of art
   b. Different types of art media
   c. Applied art

2. Do elements of art play an important role in any artwork? Discuss the various elements of art in detail giving suitable examples.   12

Section-B

3. Elaborate on the classification of colour according to Pigment colour system. How is colour used to create an optical illusion?   12

4. How do the principles of design make an artwork more effective? Discuss any three principles of design giving suitable examples. 12

Section-C

5. Write in detail about the three objectives of art. 12
6. What are the requirements of a good decorative design? Elaborate on different types of Decorative designs. 12

Section-D

7. What is Rangoli art? What points should be kept in mind while making Rangoli. 12
8. Every state has a different name for its rangoli pattern. Discuss the Rangoli pattern of different states. 12

Exam Code: 105701   Paper Code: 1279

Bachelor of Science (Information Technology)
Semester I
Course Title: Digital Electronics
Course Code: BITL-1113

Time Allowed: 3 Hours   Max. Marks: 80

Note: Attempt five questions in all, selecting atleast one question from each section. Fifth question may be attempted from any section. Each question carries 16 marks. Use of Simple calculator is allowed.

(Section A)

Q1) a) $(625.7)_{10} = (?)_8$ b) $(110010110)_{Gray\ Code} = (?)_{16}$
c) $(A5.63)_{16} = (?)_8$ d) $(1110011011.01)_2 = (?)_{10}$

$(4 \times 4 = 16)$

Q2) a) subtract 10001110 from 11010101 using 1's complement subtraction method.
b) $(1001\ 0101)_{BCD} - (0101\ 1001)_{BCD} = (?)_{BCD}$
c) Represent $-(447)_{10}$ in 8-bit Signed Representation.
d) What do you mean by ASCII code? $(4 \times 4 = 16)$

(Section B)

Q3) a) Why NOR gate is termed as universal gate? Justify your answer.
b) $F(A,B,C,D) = \Sigma(0,2,3,7,8) \cup d(1,12,15)$

$(2 \times 8 = 16)$

Q4) a) Minimize $F = \overline{ABC} + \overline{A.B} + \overline{C}$. Also draw the Boolean circuit of minimized expression.
b) Explain various laws of Boolean algebra in detail. $(2 \times 8 = 16)$

(Section C)

Q5) a) What do you mean by Decoder? Explain with the example of 3 to 8 decoder. Draw its internal structure and truth table.
b) What is 7-segment display priority Encoder? Explain its truth table and internal structure. $(2 \times 8 = 16)$

Q6) We need to derive a main memory of size 16 X 4 from chips of size 8 X 1.
a) How many chips will be needed to build main memory?

2123   (40)

b) How many chip select lines are used?

c) What will be the size of decoder?

d) Draw the memory interconnections.   (4 X 4 = 16)

(Section D)

Q7) a) What do you mean by excitation table? Draw the excitation table of JK flip-flop.

b) Explain the working of T flip-flop with truth and excitation table.   (2 X 8 = 16)

Q8) a) What do you mean by SIPO registers? Explain.

b) Explain the working of DOWN Counter in detail.   (2 X 8 = 16)

Exam Code: 118001   Paper Code: 1280

Programme: Bachelor of Science (Information Technology)
Semester: I
Course Title: Introduction to Programming - C
Course Code: BITL-1114

Time Allowed: 3 Hours   Max Marks: 80

Note: Attempt five questions in all, selecting at least one question from each section. The fifth question may be attempted from any section. Each question carries 16 marks.

Section-A

Q1:- What do you mean by operators? Explain relational, assignment and conditional operators with the help of an example.   (16)

Q2:- What are the various types of data Input/ Output functions available in C? Explain unformatted functions with an example.   (16)

Section-B

Q3:- Differentiate the following: (2*8=16)
   a) While and do while loop   b)   Break and continue statement

Q4:- What is Storage class? Explain all types of storage classes with their scope and lifetime.   (16)

Section-C

Q5:- What is String? How can you declare a string in C? Explain any five string handling functions with examples.   (16)

Q6:- Explain the following with program: (2*8=16)
   a) Recursion   b)   Passing arrays to a function

Section-D

Q7:- a) Create a Structure "TEACHER" with the following members and store the information of three teachers.

Member Name	Data Type
1. Id	int
2. Name	String
3. Dept.	String
4. Salary	Float

   b) What is the difference between Structure and Union? Explain in detail.   (2*8-16)

Q8:- Explain the following: (2*8=16)
   a) User defined data types   b)   Pointers Declaration

2123   32

Exam Code: 118001   Paper Code: 1281

Programme: Bachelor of Science (Information Technology)

(Semester – I)

Course Title: Fundamentals of Computers

Course Code: BITL-1115

Time Allowed: 3 Hours   Max. Marks: 80

Note: Attempt five questions in all, selecting atleast one question from each section. The fifth question may be attempted from any section. Each question carries 16 marks.

SECTION A

Q.1. What is Computer system? Explain various Hardware components of computer system.   (16)

Q.2. What is Software? Explain Application Software in detail.   (16)

SECTION B

Q.3. What are Input/output devices? Explain the working of one input device and one output device of your choice.   (16)

Q.4. What is Secondary Storage? Explain different types of secondary storage devices.   (16)

SECTION C

Q.5. Write short notes on :   (4*4)

(a) Ribbon   (b) Office button   (c) Quick access toolbar   (d) Ruler

Q.6. What do you know about Transitions, Animation, display timings and adding sound in slides.   (16)

SECTION D

Q.7.   What are different types of Graphs, explain the steps to create the graphs taking suitable examples.   (16)

Q.8. What are Pivot Tables? Explain the working of Pivot tables.   (16)

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Programme: Bachelor of Science (Information Technology) Semester-I
Exam Code: 118001
Course Code: BITL-1118

Programme: Bachelor of Computer Applications Semester-I
Exam Code: 117901
Course Code: BCAL-1118
Course Title: Computational Data Science

Time Allowed: 3 Hours   Max Marks: 80

Note: Attempt five questions in all, selecting at least one question from each section. Fifth question may be attempted from any section. All question carry equal 16 marks.

SECTION A

Q.1. What do you know about Data Preprocessing?

Q.2. Discuss the Application Areas of Data Science.

SECTION B

Q.3. Explain Quadratic Function and Quadratic Equations with Example.

Q.4.(a) Solve : $x^2 + 7x + 12 = 0$ (with Factorization and Quadratic Formula)

(b) Solve : $\log_4 x - \log_4 (x-12) = 3$

SECTION C

Q.5. Divide the polynomials.

(a) $(2x^4 + 5x^3 + 7x^2 + 16x + 15) / (2x+3)$

(b) $(6x^3 + 0x^2 - 18x + 5) / (2x-4)$

Q.6. What is polynomial. Explain types of polynomials and degree of polynomials.

SECTION D

Q.7. Find factorial:

(a) $(6! \times 3!)/(3!)$

(b) $8! / (5! * 2!)$

Q.8. Find Mode from the following data:

Class	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59
Frequency	3	5	10	20	12	6	3	1

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For Reappear Candidates (For Reappear Candidates (2022-23))

Exam Code: 118001   **Paper Code: 9119**

Bachelor of Science (Information Technology) Semester-I

Course Title: Introduction to Programming - C

Course Code: BITM-1114

Time Allowed: 3 Hours   **Max Marks: 50**

Note: Attempt five questions in all, selecting at least one question from each section. The fifth question may be attempted from any section. Each question carries 10 marks.

Section-A

Q1:- What do you mean by operators? Explain relational, assignment and conditional operators with the help of an example.   **(10)**

Q2:- What are the various types of data Input/ Output functions available in C? Explain unformatted functions with an example.   **(10)**

Section-B

Q3:- Differentiate the following: **(2*5=10)**
    a) While and do while loop   b) Break and continue statement

Q4:- What is Storage class? Explain all types of storage classes with their scope and lifetime.   **(10)**

Section-C

Q5:- What is String? How can you declare a string in C? Explain any five string handling functions with examples.   **(10)**

Q6:- Explain the following with program: **(2*5=10)**
    b)   Recursion   b)   Passing arrays to a function

Section-D

Q7:- a) Create a Structure "TEACHER" with the following members and store the information of three teachers.

Member Name	Data Type
5. Id	int
6. Name	String
7. Dept.	String
8. Salary	Float

    b) What is the difference between Structure and Union? Explain in detail.   **(2*5=10)**

Q8:- Explain the following: **(2*5=10)**
    b) User defined data types   b)   Pointers Declaration

2123   20

For Reappear Candidates (Old Syllabus (2022-23))

Exam Code: 118001   Paper Code: 9159

Programme: Bachelor of Science (Information Technology) Semester-I

Course Title: Fundamentals of Computer

Course Code: BITM-1115

Time Allowed: 3 Hours   Max Marks: 50

Note: Candidates are required to attempt five questions in all, selecting at least one question from each section. The fifth question can be attempted from any section, each question carries equal (10) marks.

Section-A

Q1. What is Software? Explain different types of Software. (10)

Q2. What is Computer? Explain the Characteristics and Applications of computer. (10)

Section-B

Q3. What is Primary Memory? Explain its types and working. (10)

Q4. What are Data Scanning devices? Explain OMR, OCR, MICR and Bar code reader. (10)

Section-C

Q5. Write the different methods of putting Header and Footer in a Word document. How different headers are set for even and odd pages? Explain. (10)

Q6. How presentations can be created? Also describe the procedure of applying animation and videos in a Presentation. (10)

Section-D

Q7. Write Short notes on: (5*2)

(1) Auto filter in MS-Excel

(2) Saving, Quitting and Printing a Worksheet

Q8. Explain different types of Functions that can be applied on different data in MS Excel. (10)

2123   20

Programme	Exam Code	Course Code
Bachelor of Arts (Journalism and Mass Communication)	116401	BJML-1102
Bachelor of Science (Fashion Designing)	119601	BFDL-1102
Bachelor of Science (Home Science)	119701	BHSL-1102
Bachelor of Computer Applications	117901	BCAL-1102
Bachelor of Science (Information Technology)	118001	BITL-1102
Bachelor of Science (Bio-Technology)	120601	BBTL-1102
Bachelor of Vocation (Retail Management)	111801	BVRL-1102
Bachelor of Vocation (Management and Secretarial Practices)	111601	BVML-1102
Bachelor of Vocation (Animation)	112201	BVAL-1102
Bachelor of Vocation (Textile Design and Apparel Technology)	111201	BVTL-1102
Bachelor of Vocation (Nutrition, Exercise and Health)	111401	BVNL-1102
Bachelor of Vocation (Beauty and Wellness)	113801	BVBL-1102
Bachelor of Vocation (Artificial Intelligence and Data Science)	114001	BVIL-1102
Bachelor of Vocation (Hospitality and Tourism)	113901	BVHL-1102

Semester-I

Course Title: Communication Skills in English

(350)

Time Allowed: 3 Hours   **Max Marks: 80**

Note: The candidates will have to attempt five questions in all selecting one from each section and the fifth question from any of the four sections. Each question will carry 16 marks.

Section – A

1. What do you understand by Scanning and Skimming Skills?
2. Explain in detail the PSQ5R model of reading.

2123   Page 1

Section – B

3. **Read the following passage and choose the correct option.**

Conversation is indeed the most easily teachable of all arts. All you need to do in order to become a good conversationalist is to find a subject that interests you and your listeners. There are, for example numberless hobbies to talk about. But the important thing is that you must talk about the other fellow's hobby rather than your own. Therein lies the secret of your popularity. Talk to your friends about the things that interest them, and you will get a reputation for good fellowship, charming with, and a brilliant mind. There is nothing that pleases people so much as your interest in their interests.

It is just as important to know what subjects to avoid and what subjects to select for good conversation. If you don't want to be set down as a wet blanket or a bore, be careful to avoid certain unpleasant topics. Avoid talking about yourself, unless you are asked to do so. People are interested in their own problems, not in yours. Sickness or death bores everybody. The only one who willingly listens to such talk is the doctor, but he gets paid for it. To be a good conversationalist, you must know not only what to say, but how to say it. Be civil and modest. Don't over emphasize your own importance. Be mentally quick and witty. But don't hurt others with your wit. Finally, try to avoid mannerism in your conversation. Don't bite your lips or click your tongue or roll your eyes or use your hands excessively as you speak. Don't be like the Frenchman who said, "How can I talk if you hold my hands?"

I. **For a conversation what you need is**
   a) A subject that interests the speaker and listeners
   b) Fluency of language
   c) A number of jokes
   d) A good personality

II. **A good conversationalist should know**
   a) What to say
   b) How to say something
   c) His own importance
   d) Both a) and b)

III. **In conversation what pleases other people most_____**
   a) Jokes
   b) Easy language
   c) Command of language
   d) Speaker's interest in their interest

IV. **A speaker should avoid so many things except**
   a) Talk about himself
   b) Talk about death
   c) Talk about disease

d) A short interesting story

V.   Who said, "How can I talk if you hold my hands?"
  a) Englishman
  b) Frenchman
  c) Swedish
  d) Indian

VI.   Complete the following sentences:
  a) People are interested in their own _____, not in yours.
  b) Be mentally quick and _____.
  c) All you need to do in order to become a good _____ is to find a subject that interests you and your listeners.

4.   Read the following passage carefully and answer the question the follow:

Trees give shade for the benefits of others, and while they themselves stand in the sun and endure the scorching heat, they produce the fruit by which others profit. The character of good men is like that of trees. What is the use of this perishable body if no use is made of it for the benefit of mankind? Sandalwood, the more it is rubbed, the more scent does it yield. Sugarcane, the more it is peeled and cut up into pieces, the more juice does it produce. The men who are noble at heart do not lose their qualities even in losing their life. What matters it whether men praise them or not. What difference does it make whether they die at this moment or whether their lives are prolonged? Happen what may, those who tread in the right path will not set foot in any other. Life itself is unprofitable to a man who does not live for others. To live for the mere sake of living one's life is to live the life of dogs and crows. Those who lay down their lives for the sake of others will assuredly dwell forever in a world of bliss.

  I. What is the similarity between trees and good men?
  II. What does sandalwood give on rubbing?
  III. What does the world fruit' mean as used in the passage?
  IV. How do noble men preserve their qualities even in difficulties?
  V. Who dwells in a world of bliss?
  VI. Use the following words in your own sentences:
   a. Benefits
   b. Praise
  VII. What is the meaning of 'Unprofitable'?

2123

Section – C

5. Write a letter to your friend inviting him to spend his holidays with you.
6. Write a letter to the chief of Police complaining about the increasing crime rate in your locality.

Section – D

7. What is a Memo? Write about the importance of a memo.
8. Write a job application for the post of an Office Assistant along with your resume.

Exam Code: 116401   Paper Code: 1152
    (30)

Programme: Bachelor of Arts (Journalism and Mass
           Communication) Semester-I

Course Title: Principles of Communication

Course Code: BJML-1313

Time Allowed: 3 Hours   Max Marks: 80

Note: Attempt five question in all, selecting at least one
question from each section. The fifth question can be
done from any section. Each question carries 16 marks.

Section-I

1. Define Communication in detail and also discuss its
   various elements.
2. Discuss Communication as a Social, Human and
   Universal Process.

Section-II

3. Discuss the Process of Communication with the help of
   a suitable diagram?
4. Explain the merits and demerits of various channels
   used in the Process of Communication.

Section-III

5. Discuss various forms of Communication in detail with suitable examples with special reference to Mass Communication.

6. What do you know about Verbal and Non-verbal Communication? Also draw difference between both of them.

Section-IV

7. Explain the Models of Communication presented by Lasswell and Osgood.

8. Discuss the Gate Keeping Model of Communication.

For Reappear Candidates (Old Syllabus (2021-22)) 29-11-2023

Exam Code: 116401   Paper Code: 9116

Programme: Bachelor of Arts (Journalism and Mass Communication),
Semester-I
Course Title: Principles of Communication
Course Code: BJML-1313

Time Allowed: 3 Hours   Max Marks: 60

Note: Attempt five questions in all, selecting at least one question from each section. The fifth question may be attempted from any Section. Each question carries equal (12) marks.

Section-I

1. What is Communication? Explain in detail with suitable examples.
2. Throw light upon various Types of Communication?

Section-II

3. Discuss Elements of Communication?
4. Which are the Various Barriers to Communication?

Section-III

5. Write a detailed note on Lasswell's Model of Communication.
6. What do you know about Shannon and Weaver's Model of Communication?

Section-IV

7. Discuss Magic Bullet Theory.
8. Explain Two Step Flow and Multi Step Flow in detail.

2123   20

Exam Code: 116401   Paper Code: 1153
    (30)

Programme: Bachelor of Arts (Journalism and Mass
            Communication) Semester-I

Course Title: Reporting and Editing-I

Course Code: BJML-1314

Time Allowed: 3 Hours   Max Marks: 80

Candidates are required to attempt five questions in all,
selecting at least one question from each section. The fifth
question may be attempted from any section. Each question
carries 16 marks.

Section-I

1. Discuss elements and sources of news.
2. Write notes on the following:-
   a) Headlines
   b) News-agency copy

Section- II

3. Explain principles of reporting.
4. Write notes on the following beats:-
   a) Education
   b) Health

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Section-III

5. Highlight the functions of editorial desk.
6. What is copy-editing? Discuss the importance of style-sheet in editing.

Section-IV

7. Elaborate on functioning of newsroom of a daily newspaper.
8. Discuss the functions of editing section of a daily newspaper.

Exam Code: 116401   Paper Code: 1154
     (30)

Programme: Bachelor of Arts (Journalism and Mass Communication) Semester-I

Course Title: Media and Politics

Course Code: BJML-1315

Time Allowed: 3 Hours   Max Marks: 80

Note: Attempt five questions, selecting at least one question from each section. The fifth question may be attempted from any Section. Each question carries 16 marks.

Section-I

1. Throw light upon the making of Modem India.
2. Discuss any two Major Political Parties of our Country.

Section-II

3. Write a detailed note on Lok Sabha Television.
4. Explain the strengths and weaknesses of various tools of Communication Used by political Parties.

Section-III

5. Explain Fundamental Rights and Duties in detail
6. Write a brief note upon the appointment of the President in India.

Section-IV

7. Which are the various duties of Election Commission?
8. Write about the Working structures of Municipalities.

Exam Code: 116401   Paper Code: 1155

Programme: Bachelor of Arts (Journalism and Mass Communication) Semester - I

Course Title: Photo Journalism

Course Code: BJML- 1316

Time Allowed: 3 Hours   Max Marks: 80

Note: Candidates are required to attempt five questions in all, selecting at least one question from each section. The fifth question may be attempted from any Section. Each question carries sixteen marks.

Section A

1. Write a detailed note on different types of cameras?
2. Discuss in detail the different types of lenses.

Section B

3. Write a detailed note the rules of composition in photography.
4. Describe in detail the various types of shots in photography.

Section C

5. Write a detailed note on the role of photo editing?
6. Explain in detail the qualities of a good photo journalist.

Section D

7. A picture is worth a thousand words. Comment.
8. Write short notes on:
       i. Candid
       ii. DSLR

Programme	Exam Code	Course Code
Bachelor of Arts (Journalism and Mass Communications)	116401	BJML-1421
Bachelor of Science (Fashion Designing)	119601	BFDL-1421
Bachelor of Science (Home Science)	119701	BHSL-1421
Bachelor of Computer Applications	117901	BCAL-1421
Bachelor of Science (Information Technology)	118001	BITL-1421
Bachelor of Science (Bio-Technology)	120601	BBTL-1421

Semester-I
Course Title: Punjabi (Compulsory)
(150)

Time Allowed: 3 Hours   **Max Marks: 80**

ਨੋਟ:- ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਦੇ ਚਾਰ ਸੈਕਸ਼ਨ ਹਨ। ਹਰ ਸੈਕਸ਼ਨ ਵਿੱਚੋਂ ਇੱਕ ਪ੍ਰਸ਼ਨ ਲਾਜ਼ਮੀ ਹੈ ਅਤੇ ਪੰਜਵਾਂ ਪ੍ਰਸ਼ਨ ਕਿਸੇ ਵੀ ਸੈਕਸ਼ਨ ਵਿੱਚੋਂ ਕੀਤਾ ਜਾ ਸਕਦਾ ਹੈ ਹਰ ਪ੍ਰਸ਼ਨ ਦੇ 16 ਅੰਕ ਹਨ ।

ਸੈਕਸ਼ਨ-A

1. ਸੈਦਾ ਤੇ ਸਬਜ਼ਾ ਕਵਿਤਾ ਦਾ ਸਾਰ ਲਿਖੋ। 16

2. 'ਆਖਾਂ ਵਾਰਿਸ ਸ਼ਾਹ ਨੂੰ' ਕਵਿਤਾ ਦਾ ਵਿਸ਼ਾ ਵਸਤੂ ਲਿਖੋ। 16

ਸੈਕਸ਼ਨ-B

3. ਪ੍ਰੀਤਮ ਸਿੰਘ ਦੇ ਰੇਖਾ ਚਿਤ੍ਰ ਗੰਡਾ ਸਿੰਘ ਦਾ ਸਾਰ ਲਿਖੋ। 16

4. ਅਜੀਤ ਕੌਰ ਦੇ ਰੇਖਾ ਚਿਤ੍ਰ ਨਿੱਕੀ ਕਹਾਣੀ ਦਾ ਬਾਦਸ਼ਾਹ ਦਾ ਵਿਸ਼ਾ ਵਸਤੂ ਲਿਖੋ। 16

ਸੈਕਸ਼ਨ-C

5. ਕਿਸੇ ਇੱਕ ਵਿਸ਼ੇ ਉੱਪਰ ਪੈਰਾ ਰਚਨਾ ਕਰੋ:-

ਸਮੇਂ ਦੀ ਕਦਰ

ਵਿਦਿਆਰਥੀ ਜੀਵਨ ਵਿੱਚ ਤਕਨਾਲੋਜੀ ਦਾ ਮਹੱਤਵ

ਪੰਜਾਬੀ ਮੇਲੇ ਤੇ ਤਿਉਹਾਰ 16

6. ਪੈਰਾ ਪੜ੍ਹ ਕੇ ਪ੍ਰਸ਼ਨਾਂ ਦੇ ਉੱਤਰ ਲਿਖੋ:-

ਅੰਮ੍ਰਿਤਸਰ ਉੱਤਰੀ ਭਾਰਤ ਦਾ ਵੱਡਾ ਵਪਾਰਕ ਤੇ ਉਦਯੋਗਿਕ ਕੇਂਦਰ ਹੈ। ਇੱਥੇ ਅਨਾਜ, ਕੱਪੜੇ ਤੇ ਖੁਸ਼ਕ ਮੇਵਿਆਂ ਦੀਆਂ ਵੱਡੀਆਂ ਵੱਡੀਆਂ ਮੰਡੀਆਂ ਹਨ। ਦਰੀਆਂ, ਗਲੀਚੇ ਤੇ ਸ਼ਾਲਾਂ ਬਣਾਉਣ ਦੇ ਕਈ ਕਾਰਖਾਨੇ ਵੀ ਹਨ। ਹਾਥੀ ਦੰਦ ਦਾ ਤੇ ਕੁਝ ਹੋਰ ਕਲਾਤਮਕ ਕੰਮ ਹੱਥਾਂ ਨਾਲ ਹੁੰਦਾ ਹੈ। ਅੰਮ੍ਰਿਤਸਰ ਦੇ ਸਾਬਨ ਤੇ ਪਾਪੜ ਵੜੀਆਂ ਦੂਰ ਦੂਰ ਤੱਕ ਸੌਗਾਤ ਵਜੋਂ ਜਾਂਦੀਆਂ ਹਨ। ਹਰ ਸਾਲ ਲੱਖਾਂ ਯਾਤਰੀਆਂ ਵਧੀਆ ਹੋਟਲਾਂ ਤੋਂ ਛੁੱਟ ਇੱਥੇ ਇੱਕ ਵਿਸ਼ਾਲ ਦੋ ਮੰਜ਼ਿਲਾਂ ਗੁਰੂ ਰਾਮਦਾਸ ਨਿਵਾਸ ਬਣਿਆ ਹੋਇਆ ਹੈ ਜੋ ਹਰਿਮੰਦਰ ਦੇ ਨਾਲ ਲੱਗਦਾ ਹੈ। ਇਸ ਵਿੱਚ, ਚਾਰ ਵੱਡੇ ਹਾਲ ਤੇ 156 ਕਮਰੇ ਹਨ। ਹਰ ਧਰਮ ਦੇ ਯਾਤਰੂਆਂ ਨੂੰ ਇੱਥੇ ਰਿਹਾਇਸ਼ ਲਈ ਮੁਫ਼ਤ ਥਾਂ ਮਿਲਦੀ ਹੈ। ਇਸ ਦੇ ਨਾਲ ਹੀ ਗੁਰੂ ਦਾ ਅਟੁੱਟ ਲੰਗਰ ਦਿਨ ਰਾਤ ਚੱਲਦਾ ਹੈ ਜਿੱਥੇ ਹਰੇਕ ਅਮੀਰ ਗਰੀਬ ਭੋਜਨ ਕਰ ਸਕਦਾ ਹੈ।

1. ਅੰਮ੍ਰਿਤਸਰ ਵਿੱਚ ਕਿਹੜੀਆਂ ਕਿਹੜੀਆਂ ਵਸਤਾਂ ਦੀਆਂ ਵੱਡੀਆਂ ਮੰਡੀਆਂ ਲੱਗਦੀਆਂ ਸਨ

2. ਅੰਮ੍ਰਿਤਸਰ ਦੀ ਕਿਹੜੀ ਚੀਜ਼ ਸੌਗਾਤ ਵਜੋਂ ਜਾਈ ਜਾਂਦੀ ਹੈ

3. ਇੱਥੇ ਕਿਹੜਾ ਦੋ ਮੰਜ਼ਿਲਾਂ ਨਿਵਾਸ ਸਥਾਨ ਬਣਿਆ ਹੋਇਆ ਹੈ

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4. ਪੈਰ੍ਹੇ ਦਾ ਢੁੱਕਵਾਂ ਸਿਰਲੇਖ ਦਿਉ।

16

ਸੈਕਸ਼ਨ-D

7. ਪੰਜਾਬੀ ਧੁਨੀ ਵਿਉਂਤ ਬਾਰੇ ਜਾਣਕਾਰੀ ਦਿਉ।

8. ਵਿਅੰਜਨ ਦੀ ਪਰਿਭਾਸ਼ਾ ਲਿਖ ਕੇ ਇਸ ਤੇ ਨੋਟ ਲਿਖੋ।   16

For Reappear Candidates (Old Syllabus (2022-23))

Exam Code: 107501   Paper Code: 9113

Bachelor of Arts (Honours) English Semester -1
Course Title: Renaissance Poetry
Course Code: BOEL -1212

TIME: 3HOURS   Marks:40

SECTION-A

Each question carries 4 marks and has to be answered in 100 words approximately.
1.What is the theme of the poem 'When in the chronicle of wasted time'by Shakespeare.

OR

Summarize the poem 'Let me not to the marriage of true minds' by William Shakespeare.
2.What does John Donne ask his beloved in the poem 'The Good Morrow'?

OR

Why does Donne ask death not to be proud in the poem. "Death, be not proud" penned by him.
3.Summarize the speech of Satan in lines 242-270 in Book1 of Paradise Lost by John Milton.

OR

Bring out the autobiographical elements in the poem"On his blindness"by John Milton.
4. Define and explain briefly the following Literary Terms:
(a) Sonnet (B) Alliteration

OR

(a) Oxymoron (b) Metaphor

SECTION-B

Attempt one question in 600 words. Each question carries 8 marks.
5. What is the theme of the poem'That time of year thou may'st in me behold by Shakespeare.

OR

"let me not to the marriage of true minds"is a typical Shakespearean love sonnet. Discuss.

SECTION-C

Attempt one question in 600 words. Each question carries 8 marks.

6. Discuss "Hymn to God in my Sickness"as a metaphysical poem.

OR

What are the features of metaphysical poetry.

SECTION-D

Attempt one question in 600 words. Each question carries 8 marks.
7. Compare and contrast the poems Ón his Blindness'and 'On his Twenty-third Birthday' by John Milton.

OR

What is the theme of Paradise Lost Book1 by John Donne and what is his purpose in wriing the Epic poem. Also mention some features which make Paradise Lost an Epic.

Exam Code: 107501 (According to Syllabus (2022-23))

Paper Code: 9114

Programme: Bachelor of Arts (Honours) English Semester-I
Course Title: English Prose from Bacon to Addison
Course Code: BOEL-1215

Time Allowed: 3 hours   Max. Marks: 40

Section–A

Note: Attempt the following questions in about 100 words each. Each question carries 4 marks.   **(4×4=16 Marks)**

1. What are the ideas put forward by Bacon in the essay 'Of Marriage and Single Life'?

Or

   Over ambitious persons are dangerous. Explain in accordance with the essay 'Of Ambition'.

2. What remedy does Swift suggests to the grave situation in Ireland?

Or

   Describe the picture of poverty painted by Swift in his essay 'A Modest Proposal'.

3. Discuss briefly different kinds of female orators.

Or

   What are the characteristic features of Sir Roger ?

4. Write short notes on Prose and Foreshadowing.

Or

   Write short notes on Flashback and Dramatic Irony.

Section–B

Note: Attempt any one question in about 600 words approximately.   **(1×8=8 Marks)**

5. Critically summarise the essay 'Of Studies' by Francis Bacon.

Or

6. Attempt a critical appreciation of the essay 'Of Travel' by Bacon.

Section–C

Note: Attempt any one question in about 600 words approximately.   **(1×8=8 Marks)**

7. How is the essay 'A Modest Proposal' a satire on society?

Or

8. Write in detail about the writing style of Jonathan Swift.

Section–D

Note: Attempt any one question in about 600 words approximately.   **(1×8=8 Marks)**

9. With what aim has Addison started the Spectator? What does he promise?

Or

10. Explain in detail the art of handling fans as explained by Addison.

For Reappear Candidates (Old Syllabus (2022-23))

Exam Code: 107501   Paper Code: 9115

Programme: Bachelor of Arts (Honours) English, Semester-I
Course Title: History of English Literature (1150-1789)
Course Code: BOEL- 1216

Time Allowed: 3 hours   Max. Marks: 40

Section–A

Q1: Note: Attempt any four questions in about 100 words approximately. Each question carries 4 marks.   (4×4=16 Marks)

1. What do you mean by ''Sonnet''?
2. What do you know about "Interludes"?
3. Write a note on sonnets of Edmund Spencer.
4. Write a brief note on University Wits.
5. Explain the term Neoclassicism.
6. What do you understand by Pre-Romantic Age?

Section–B

Note: Attempt any one questions in about 600 words approximately.

(1×8=8 Marks)

Q2. Write a detailed note on the contribution of Geoffrey Chaucer in English literature.

Or

Q3. Give detailed account of the spirit of the Middle Ages.

Section–C

Note: Attempt any one questions in about 600 words approximately.

(1×8=8 Marks)

Q4. Define Renaissance. Write its important characteristic features.

Or

Q5. Write a detailed note on Shakespearian History Play .

Section–D

Note: Attempt any one questions in about 600 words approximately.

(1×8=8 Marks)

Q6. Discuss the characteristic features of Neoclassicism.

Or

Q7. What do you know about "Comedy of Manners"?

FoR REAPPEAR CANDIDATES (2022-23.)

Exam Code: 112411-
(20)

Paper Code: 9145

Programme: Bachelor of Science (Honours) Mathematics
Semester-I

Course Title: Physical Chemistry

Course Code: BOMM-1085

Time Allowed: 3 Hours

Max Marks: 60

Note: -

* Attempt five questions in all, selecting at least one question from each section. Fifth question may be attempted from any section. Each question carries 12 marks.

* Use of non - scientific calculator is allowed.

* Use of logarithm tables is allowed.

Section — A

1. (a) Derive expressions for molar heat capacities Cv and Cp in terms of internal energy change and enthalpy change and hence show that $CP - Cv = R$ for one mole of an ideal gas. (4)

(b) Show that for adiabatic expansion of an ideal gas.
$$TV^{\gamma-1} = \text{Constant} \qquad (4)$$

(c) Explain isothermal, adiabatic and isochoric process (4)

2. (a) Derive thermodynamically Kirchoff's equation.

(6)

(b) Derive an expression for entropy change of mixing of ideal gases. (6)

Section -B

3. (a) Draw a labeled phase diagram of water- system & discuss its salient features. (6)

(b) State and explain the term Phase, Component, Degree of freedom using suitable examples.

(6)

4. (a) State and Explain the law of chemical equilibrium, Name three different types of equilibrium constants and give their units and relationship between them.

(6)

(b) Explain the term Gibbs free energy. Also explain how does it vary with temperature and pressure.

(6)

Section - C

5. (a) Discuss in brief various methods of determination of order of the reaction. (6)

(b) Differentiate between Order and Molecularity of the reaction. (3)

(c) What is rate law? How does it differ from law of mass action? (3)

6. (a) Derive the expression for the rate constant for the first order reaction. Also explain the characteristics of the first order reaction. (6)

(b) For the decomposition of N_2O_5 in CCl_4 solution at 320k

$$2 N_2O_5 \longrightarrow 4NO_2+O_2$$

Show that the reaction is of first order and also calculate the rate constant

Time in mins	10	15	20	25	∞
Volume(inc.c)	6.30	8.95	11.40	13.50	34.75

(6)

Section - D

7. (a) State and Expalin Kohlrausch's law. Why is it called law of independent migration of ions? How can we calculate degree of dissociation of a weak electrolyte. (6)

(b) Explain the various factors which affects the transport numbers. (6)

8. (a) Define transport number of an ion. Describe in detail Moving Boundary Method of determination of transport numbers of ions. (6)

(b) Explain in details the concept of reversible and irreversible cells. (6)

FOR REAPPEAR CANDIDATES (2022-23).

Exam Code: 508401   Paper Code: 9146

Programme: Bachelor of Science (Honours) Mathematics.
Semester-I

Course Title: Mechanics

Course Code: BOMM-1396

Time Allowed: 3 Hours   Max Marks: 60

Note: Attempt five questions, selecting at least one question from each section. Each question carries equal marks. Students can use Non-Scientific calculators or logarithmic tables.

Section A

1. (a) Using the expression for velocity of a particle in spherical polar coordinates, drive acceleration of the particle moving in a space. (8)

   (b) Find the expression for various area elements and volume element in spherical polar coordinate system.

   (4)

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2. (a) What is Coriolis force? What is its origin? Discuss the effect of Coriolis force on a particle moving in Northern hemisphere? Justify with proper analysis?

(8)

(b) What are the quantities which are invariant under Galilean Transformations? Prove that the laws of conservation of linear momentum and energy remain invariant under Galilean transformations?

(4)

Section B

3. Derive the relations between kinetic energy of individual particles and total initial kinetic energy in elastic scattering when it is observed from lab system. Also discuss the special case when incident particles and target particles are identical. (12)

4. a) What is impact parameter? Write its formula and hence discuss its significance. (4)

b) Derive an expression for reaction cross-section in case of Rutherford alpha particle scattering experiment?

(8)

Section C

5. (a) Discuss the conditions for various shapes of orbits from a graph showing the variation of centrifugal potential energy, gravitational potential energy and effective potential energy with radial distance from center of force. (7)

(b) A body moving under action of a central force describes a path $r = a\sin\theta$. Find the force law.

(5)

6. Derive the differential equation of orbit for a body moving under the effect of a central force by reducing the two-body problem into one body problem and prove that angular momentum of the body is always conserved in this case. (12)

Section D

7. Discuss the rotational motion of a rigid rotator and derive the expression for torque which is responsible for the rotation of angular momentum in this case.

(12)

8. Derive Euler's equations for the rotational motion of a rigid body.

(12)

(For Reappear Candidates (2020-21))

Exam Code: 171801   Paper Code: 9147

Programme – Bachelor of Science (Honours) Physics, Semester-I
Course Title- Mathematics-I
Course Code-BOPL-1335

Time allowed-3 hours   Max. Marks-40

Note-Attempt total five questions, selecting at least one question from each section. The fifth
question may be attempted from any section.

Section-A

1(a). Let $f(x)= \begin{cases} 1, & x \leq 3 \\ ax+b, & 3 < x < 5 \\ 7, & 5 \leq x \end{cases}$

Determine the constants a and b so that f may be continuous for all x.   [4]

(b).Find the first and second partial derivative of $z = x^3 + y^3 - 3axy$.   [4]

2(a).If $y = e^{ax} sinbx$, then prove that $y_2 - 2ay_1 + (a^2 + b^2)y=0$ [4]

(b). State and prove Leibnitz theorem.   [4]

Section-B

3(a).Use Taylor's theorem to express $5x^2 + 7x + 3$ in powers of x-2 .   [4]

(b).Show that the parabola $y^2 = 4ax$ has no asymptotes.   [4]

4(a).State Rolle's theorem and Mean value theorem.   [4]

(b).Find the slope of the normal at the point (am^3, am^2) to the curve $ax^2 = y^3$.   [4]

Section-C

5(a).Evaluate $\int \frac{2x+9}{x^2+9x+30}$ [4]

(b).Solve $\int \frac{x}{(x-1)^2(x+2)} dx$ [4]

6(a).Find the reduction formula for $I_n = \int x^n e^{ax} dx$ and hence evaluate I_3 and I_4 .   [4]

(b).Solve $\int_0^{\frac{\pi}{4}} (2sec^2x + x^3 + 2)dx$ [4]

Section-D

7(a).Solve the differential equation $\frac{d^2y}{dx^2} + 4\frac{dy}{dx} + 13y = 0$.   [4]

(b).Solve $\frac{dy}{dx} + y = e^{-x}$.   [4]

8(a).Form the differential equation representing the family of curves by eliminating

and b :

$y - e^{2x}(a + bx)$ [4]

(b).Solve the following

$(D^3 - 3D^2 + 9D - 27)y = cos3x$ [4]

Exam Code: 121301　　　　　　　　Paper Code: 1196
　　(30)

Programme: Bachelor of Science Semester-I

Course Title: Botany (Diversity of Microbes)

Course Code: BSMM-1075 (I)

Time Allowed: 3 Hours　　　　　　　Max Marks: 40

Attempt five questions in all, selecting at least one question from each section. The fifth question may be attempted from any section. All questions carry equal marks. Draw well labelled diagrams wherever necessary.

Section-A

1. Write short notes on following:
   a. Range of thallus organization in Algae
   b. Coenobium

2. Describe important features and life cycle of Polysiphonia.

Section-B

3. Write short notes on the following:
   a. Mycoplasma
   b. Economic importance of bacteria

4. Give a detailed account of structure and nutrition in bacteria.

Section-C

5. Write details about the importance characters and life cycle of Phytophthora.

6. Write important characters of the following groups:
   a. Economic importance of Fungi
   b. Reproduction in Fungi

Section-D

7. Give a detailed account on the life cycle of Agaricus.

8. Describe characters of following:
   a. Teleutospores of Puccinia
   b. Red rot of sugarcane
   c. General characters of Lichens

Exam Code: 121301   Paper Code: 1197
     (30)

Programme: Bachelor of Science Semester-I

Course Title: Botany (Diversity of Cryptogams)

Course Code: BSMM-1075 (II)

Time Allowed: 3 Hours   Max Marks: 60

Note: Attempt five questions in all selecting at least one question from each section. The fifth question may be attempted from any section. All questions carry equal marks. Draw labelled diagrams wherever necessary.

Section-A

1. What are Bryophytes? Describe briefly the characteristic features of Bryophytes. (2+10)
2. Write short notes on the following:
   i) Name an aquatic, xerophytic and smallest bryophyte (3)
   ii) Rhizoids are not called as root in bryophytes (2)
   iii) Bryophytes as amphibians of plant kingdom (4)
   iv) Alteration of generations (3)

Section-B

3. Describe briefly about the morphology and internal structure of sex organs in Marchantia. Give diagrammatic life cycle of Marchantia.

(8+4)

4. Describe the following:
   i) Thallus structure (morphological and anatomical) of Anthoceros. (4)
   ii) Anthoceros is called as Hornworts (2)
   iii) Capsule of Funaria (4)
   iv) Peristome teeth (2)

Section-C

5. What are Pteridophytes? Discuss general characters of pteridophytes. (2+10)
6. Describe in detail the external morphology of Rhynia plant and anatomy of its reproductive part with the views on its gametophyte. (12)

Section- D

7. Give an illustrated account on the different types of steles met with in various species of Lycopodium. (12)
8. Write short notes on the following:
   i) Heterospory (4)
   ii) Xerophytic as well as aquatic character of Equisetum (4)
   iii) Eusporangiate and Leptosporangiate pteridophytes (2)
   iv) Sporocarp (2)

(For Reappear Candidates (Old Syllabus (2022-23))

Exam Code: 121301

Paper Code: 9135

Programme: Bachelor of Science, Semester: I

Course Title: Chemistry (Inorganic Chemistry)

Course Code: BSMM/BSNM-1084 (I)

Time Allowed: 3 Hours

Max Marks: 30

Note: Attempt five questions in all, selecting atleast one question from each section. The fifth question may be attempted from any section. Each question carries equal (6) marks. Use of simple calculators is allowed.

Section-A

1. a) Differentiate between electromagnetic waves and matter waves. (4)
    b) Derive the de-Broglie equation and mention all the terms involved in it. (2)
2. a) Why are half filled and fully filled orbitals more stable? (4)
    b) Draw and discuss the shapes of p-orbitals. (2)

Section-B

3. a) Calculate the effective nuclear charge in case of zinc $(Z = 30)$ atom for (4)
    (i) an electron in 4s orbital
    (ii) an electron in 3d orbital

    b) Why the second ionization energy of lithium is greater than the first ionization energy? (2)

4. a) Define electronegativity. Discuss Allred and Rochow's scale of electronegativity. (4)

    b) How reducing character vary in a periodic table? (2)

Section-C

5. a) Explain on the basis of MOT that why N_2 molecule is diamagnetic while O_2 molecule is paramagnetic? (4)

   b) Explain the structure of BeF_2 on the basis of hybridization. (2)

6. a) Draw MO diagram of CN and show its bond order. Compare the bond length of CN with that of CN^-. (4)

   b) Explain the hybridization and structure of BF_3 molecule on the basis of VBT. (2)

Section-D

7. What are semi-conductors? Discuss in detail various types of it with the help of suitable diagrams. (6)

8. a) Discuss the structure of anti-fluorite. (3)

   b) Differentiate between Schottky defect and Frenkel defect. (3)

For Reappear Candidates (Old Syllabus (2022-23))

Exam Code: 121301   Paper Code: 9138

Programme: Bachelor of Science (Medical/Non-Medical) Semester-I

Course Title: Chemistry (Organic Chemistry)

Course Code: BSMM/BSNM-1084(II)

Time Allowed: 3 Hours   Max Marks: 30

Note: Candidates are required to attempt five questions in all selecting at least one question from each section. The fifth question may be attempted from any section. Each question carries equal (6) marks.

SECTION-A

1. (a) Assign reason for the following: Relative acid strength of phenols and alcohols. (3)

   (b) Give points of difference between singlet and triplet carbenes. (3)

2. (a) Define the term hyperconjugation and explain it in terms of orbital concept. How does it explain the relative stabilities of alkenes? (3)

   (b) Account for unusual stability of Cycloheptatrienyl cation. (3)

SECTION-B

3. (a) What is Wurtz reaction ? Discuss its mechanism. Is this method suitable for the synthesis of unsymmetrical alkanes ? If not, why ? (3)

   (b) Dehydration of alcohols to alkenes is carried out with an acid but not with a base and the acid used is invariably H_2SO_4 and not HCl or HNO_3. Explain. (3)

4. (a) Identify the reaction and complete the reaction with mechanism.

   (3)

   (b) Bromine is less reactive but more selective whereas chlorine is more reactive but less selective. Explain. (3)

SECTION-C

5. (a) Give the mechanism of SN^1 reactions of alkyl halide. (3)

   (b) Discuss Baeyer's Strain Theory to explain the relative stabilities of cycloalkanes. (3)

6. (a) Give the elimination addition mechanism of conversion of chlorobenzene into aniline. (3)

   (b) Cyclopropane is the least stable member of cycloalkane. Justify the statement. (3)

SECTION-D

7. (a) What are aromatic, anti-aromatic and non-aromatic compounds? Give one example in each case. (3)

   (b) Explain the mechanism of nitration of benzene. (3)

8. (a) What are σ and π complexes? Illustrate their role in aromatic electrophilic substitution reactions with the help of energy profile diagram. (3)

   (b) Draw and explain molecular orbital structure of benzene. (3)

Programme	Exam Code	Course Code
Bachelor of Science (Medical)	121301	BSMM-1084 (I)
Bachelor of Science (Non-Medical)	121301	BSNM-1084 (I)

Semester-I

Course Title: Chemistry (Inorganic Chemistry)

(50)

Time Allowed: 3 Hours   **Max Marks: 40**

Note: Attempt five questions in all, selecting atleast one question from each section. The fifth question may be attempted from any section. Use of simple calculators are allowed. Each question carries equal (8) marks.

Section-A

1. a) Derive the Schrodinger wave equation for an electron moving in three dimensions. (6)
   b) Explain Hund's rule with the help of examples. (2)
2. a) What are the three quantum numbers used to describe an orbital? Explain in detail. (6)
   b) Distinguish between stationary wave and non-stationary wave. (2)

Section-B

3. What is ionization energy? On what factors does it depend? How does the ionization energy of the

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elements vary as we move down a group and along a period? (8)

4. a) Define electronegativity. Discuss Pauling's scale of electronegativity. (4)
   b) Explain the following: (4)
   (i) Electron affinity of halogens is highest in their respective periods.
   (ii) Second ionization energy of Na is higher than Mg.

Section-C

5. a) Discuss the structure and mode of bonding in diboranes. (4)
   b) Compare the bond orders of CN and CN⁻ on the basis of MO theory. (4)

6. What do you mean by the term hybridization? What are the characteristics and conditions for it? Explain the shapes of SF_6 and XeF_4 using the concept of hybridization. (8)

Section-D

7. a) Draw and discuss the structure of sodium chloride. (4)
   b) Explain Schottky and Frenkel defects. (4)

8. a) Construct the Born-Haber cycle for the formation of NaCl. How does it explain the stability of ionic compounds? (6)
   b) Which among ortho-nitrophenol and para-nitrophenol has higher boiling point and why? (2)

Paper Code: 1195

Programme	Exam Code	Course Code
Bachelor of Science (Medical)	121301	BSMM-1084 (II)
Bachelor of Science (Non-Medical)	121301	BSNM-1084 (II)

Semester-I

Course Title: Chemistry (Organic Chemistry)

(50)

Time Allowed: 3 Hours   **Max Marks: 60**

Note: Candidates are required to attempt five questions in all selecting at least one question from each section. The fifth question may be attempted from any section. Each question carries equal (12) marks.

SECTION-A

1. (a) Define hydrogen bonding. Explain with examples, intermolecular and intramolecular hydrogen bonding. Comment upon the effect of hydrogen bonding on the boiling points and solubilities of organic compounds.

(6)

(b) Explain the concept of aromaticity and account for the unusual stability of

(i) cycloheptatrienyl cation and

(ii) Triphenylmethyl anion (6)

2. (a) Give reasons for the following:

(i) Phenols are stronger acids than alcohol.

(ii) Ethylamine is basic than aniline. (6)

(b) Differentiate between singlet and triplet carbenes. Explain why triplet carbenes are more stable than singlet carbene with its orbital structure. (6)

SECTION-B

3. (a) An equimolar mixture of neopentane and ethane yields neopentyl chloride and ethyl chloride in the ratio 2.3:1. How does reactivity of a primary hydrogen in neopentane compare with that of a primary hydrogen in ethane (6)

(b) Identify the reaction, predict the product and sketch the mechanism of the following reaction (6)

4. (a) What is Wurtz reaction? Discuss its mechanism. Explain with reason whether this method suitable for the synthesis of unsymmetrical alkanes or not? (6)

(b) Dehydration of alcohols to alkenes is carried out with an acid but not with a base and the acid used in invariably H_2SO_4 and not HCl or HNO_3. Explain its regiochemistry. (6)
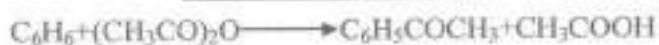
SECTION-C

5. (a) Describe briefly Baeyer's strain theory. How can it be used to explain reactivity of cyclopropane and cyclobutane rings? What are its limitations? (6)

(b) Discuss the mechanism, stereochemistry and kinetics of SN^2 reaction with energy profile diagram. (6)

6. (a) Give the elimination-addition mechanism of conversion of chlorobenzene into aniline. (6)

(b) Describe briefly Sachse-Mohr theory of strainless rings. How does it account for the stability of cycloalkanes containing six or more carbon atoms?

(6)

SECTION-D

7. (a) What are σ and π complexes? Illustrate their role in aromatic electrophilic substitution reactions with the help of an energy profile diagram. (6)

(b) Discuss the mechanism of the following reaction (6)

$$\boxed{\text{Anhydrous AlCl}_3}$$

$$C_6H_6 + (CH_3CO)_2O \longrightarrow C_6H_5COCH_3 + CH_3COOH$$

8. (a) Discuss the orbital structure of benzene with a well labelled diagram. (6)

(b) Methyl group attached to benzene ring has no lone pair of electrons but is still ortho, para-directing in nature. Explain why? (6)

Exam Code: 121301   Paper Code: 1198

Programme: Bachelor of Science (Semester - I)

Course Title: Food Science and Quality Control (Vocational)

(Food Chemistry and Nutrition)

Course Code: BSMM-1255

Time Allowed: 3 Hours   **Max. Marks: 60**

Note: Attempt five questions in all, selecting atleast one question from each section. The fifth question may be attempted from any section. Each question carries 12 marks.

Section A

1. a. Explain the relationship between malnutrition and the global burden of   6
        disease. How does malnutrition impact overall public health, and what steps
        can be taken to address this issue?

    b. Explain the importance and uses of five basic food groups.   6

2. What are the primary functions of food in the human body? Discuss how food   12
    serves as a source of energy, provides essential nutrients, and contributes to overall
    health and well-being. Provide examples of specific nutrients and their roles in
    supporting these functions.

Section B

3. a. Describe the difference between fat-soluble vitamins and water-soluble   6
        vitamins and provide examples of each.

    b. What are carbohydrates? Write the detail classification of carbohydrates. 6

4. a. Describe the difference between macro minerals and micro minerals and   6
        provide examples of each.

    b. How do various food processing techniques affect the structure and   6
        functionality of food proteins? Provide specific examples of how these
        modifications can influence the texture, flavour, and nutritional properties of
        processed food products.

Section C

5.
    a. What are the steps involved in the butter manufacturing process?   6

    b. Write the various kinds of processed milk available in the market.   6
6.
    a. Discuss about the breakfast cereals.   6

    b. Write the role of ingredients in bakery product manufacturing.   6

Section D

7.

a. What are the significant biochemical changes occurring in carcass? 6

b. Discuss the changes in meat composition and structure during cooking. How do different cooking methods influence the texture and flavour of meat? 6

8.

a. Describe the composition of egg white (albumen), including its protein content and other components. What is the function of these components in the egg? 6

b. Explain the basic process of making jam, including the key ingredients and the role of pectin. 6

Exam Code: 121301   Paper Code: 1193
   (20)

Programme: Bachelor of Science
Semester-1

Course Title: Microbiology (Fundamentals of Microbiology)

Course Code: BSMM-1343

Time Allowed: 3 Hours   Max Marks: 60

Candidates are required to attempt five questions in all, selecting at least one question from each section; A, B, C, D. The fifth question may be attempted from any of these four sections. Each question carries 12 marks.

Section — A

1. (a) What do you know about "Germ theory of disease"? Who gave this theory? Write its various postulates?

                                        (4)

    (b) Write in brief about the history of Microbiology while giving specific reference to discoveries of Louis Pasteur?

                                        (4)

(c) Which experiment challenged and falsified the theory of "Non-spontaneous generation of life? Write in brief about the experiment? (4)

2. (a) Give details of Whittaker's system of classification of living World? What are its advantages and disadvantages? (8)

(b) Write general characteristics of Bacteria?

(4)

Section — B

3. What do you know about "Immunofloresecne"? Draw the structure of Fluorescent Microscope and explain its structure, working and applications?

(12)

4. (a) What is "Autoclaving"? Explain in brief its application in strilisation of growth medium? (4)

(b) Write in brief about "Drug resistance" in pathogenic microbes? (4)

(c) What is differential staining? Give one example?

(4)

Section — C

5. (a) Draw the structure of Gram Positive Bacterial cell wall only? (4)

(b) What do you know about cytoplasmic inclusions? What is the role of β — Poly Hydroxy Butyrate in cell? (4)

(c) Draw the structure of an endospore? (4)

6. (a) Classify and explain various nutritional groups of bacteria depending upon their nutritional requirements? (10)

(b) Name any two chemicals used for chemical control of microorganisms? (2)

Section — D

7. (a) Define term "Synchronous growth"? How it can be achieved? (4)

(b) Write and explain any two methods for measuring microbial growth? (4)

(c) Draw the microbial growth curve? Explain its various phase? (4)

8. (a) Briefly explain pathogenesis, diagnosis and treatment of any one bacterial disease studied by you? (6)

(b) Give a detailed account of pathogenesis, diagnosis and treatment of any one viral disease studied by you? (6)

Exam Code: 121301   Paper Code: 1191
   (30)

Programme: Bachelor of Science Semester-I

Course Title: Zoology (Cell Biology)

Course Code: BSMM-1483 (I)

Time Allowed: 3 Hours   Max Marks: 40

Note: Attempt five questions in all, selecting at least one question from each section (A to D). Fifth question can be attempted from any section. Each question carries equal (8) marks. Draw diagrams wherever necessary.

Section-A

1. Describe the electron microscope and types with the help of diagrams.   8

2. (a) What are the various staining technique used for staining.   2

   (b) Discuss various staining technique used for staining.   6

Section-B

3. Describe the various models that show the ultrastructure of cell membrane. According to your opinion which model is best related to its structure.   8

4. Describe the structure and function of Endoplasmic reticulum with reference to its role in protein trafficking.   8

Section-C

5. Describe the ultrastructure and functions of Golgi apparatus. 8
6. Explain the structure of ribosomes with the help of well labelled diagram. 8

Section-D

7. Explain structure and function of Nucleus in detail. 8

8. Describe non specific defence mechanism of human body. 8

Exam Code: 121301   Paper Code: 1192
(30)

Programme: Bachelor of Science
Semester- I

Course Title: ZOOLOGY (Biodiversity-I)

Course code: BSMM-1483 (II)

Time Allowed: 3 Hours   Max marks: 60

Note: Attempt five questions in all, selecting atleast one question from each section and fifth question from any section. Each question carries equal marks. Draw neat and well labelled diagrams wherever required.

Section A

1. Discuss the Conjugation and Autogamy in Paramecium.   12

2. Explain Schizogony and Gamogony phase in life cycle of Plasmodium   12

Section B

3. Describe the canal system of Sycon with the help of well labelled diagrams.   12

4. Give an account of the histology of the polyp of   12

Obelia.

Section C

5. Describe the life history of Fasciola hepatica. 12

6. Describe male and female reproductive system of 12
   Taenia solium.

Section D

7. Explain morphology and physiology of digestive 12
   system of Ascaris.

8. Give a brief account of nervous system of 12
   Earthworm with the help of well labelled diagrams.

Paper Code: 9137.

Programme	Exam Code	Course Code
Bachelor of Science (Non-Medical)	121301	BSNM-1395 (I)
Bachelor of Science (Computer Science)	121301	BCSM-1395 (I)

Semester-I
Course Title: Physics (Mechanics)
(20)

Time Allowed: 3 Hours   Max Marks: 30

Candidates are required to attempt five questions in all, selecting at least one question from each section. The fifth question may be attempted from any of these four sections. Each question carries 6 marks. Students can use Non-scientific calculators or logarithmic tables.

Section A

1. (a) Obtain the relation for displacement and velocity of a particle in spherical polar coordinates.   (4)

(b) If Cartesian coordinates of a point are (1,0,0) and find spherical polar coordinates of a point.

(2)

2. (a) Define solid angle and its units. Obtain an expression for solid angle subtended by the surface of sphere at its centre. (4)

(b) Derive the expression for volume element in spherical polar coordinates. (4)

Section B

3. Discuss the concept of ether and its need in brief. Find the expression for fringe shift required in Michelson-Morley experiment in order to proof the existence of ether. (6)

4. Derive the equation of orbit of a body under inverse square force field. Find expression for turning points and discuss the nature of orbits on the basis of total energy of body. (6)

Section C

5. (a) Find the Coriolis force on a 500kg mass moving at 100km per hour due north at 30° latitude. (8)

    (b) Find expressions for horizontal and vertical accelerations on a particle moving on surface of earth at latitude in northern hemisphere due to rotation of earth. (4)

6. Prove that the laws of conservation of linear momentum and energy remain invariant under Galilean transformations. (6)

Section D

7. Discuss the rotation of angular momentum vector about a fixed axis for a rigid rotator. Hence prove that a torque is always required to produce this rotation. (6)

8. Discuss the scattering of alpha particle from the target nucleus. Prove that the trajectory of alpha particle is hyperbolic. Also find the expression for impact parameter and scattering cross-section. (6)

For Reappear Candidates (Old Syllabus (2019-20), (2020-21), (2021-22), (2022-23))

Exam Code: 121301   **Paper Code: 9140**

Bachelor of Science (Non Medical/ Computer Science), Semester: I
Course Title: Physics (Electricity and Magnetism)
Course Code: BSNM/ BCSM-1395 (II)

Time Allowed: 3 Hours   **Max Marks: 30**

Note: Candidates are required to attempt five questions in all, selecting at least one question from each section. The fifth question can be attempted from any Section. Each question carries equal **(6) marks.** Students can use Non-Scientific calculators or logarithmic tables.

Section-A

1. (a) Define divergence of the vector field $\vec{A}$. Show that div curl $\vec{A} = 0$.   3

(b) A rigid body is rotating with a uniform angular velocity $\vec{\omega}$ about an axis passing through it. Show that curl $\vec{v} = 2\vec{\omega}$ where $\vec{v}$ is linear velocity.   3

2. A semicircular wire with radius "a" and has linear charge density λ. Calculate the electric field produced by this charge distribution at the centre of curvature of wire.   6

Section-B

3. Show that the potential due to uniformly charged ring of radius a at any point on its axis is   6

$$V = \frac{Q}{4\pi\varepsilon_0 \sqrt{z^2+a^2}}$$

4. (a) Show analytically that the potential at the center of the sphere is 3/2 times the potential at its surface.   3

(b) Prove that potential at any point inside the charged shell is equal to the potential on its surface.   3

Section-C

5. (a) A wire is connected across an ammeter. Why does not it show any current even though the wire contains large number of moving free electrons?   2
(b) State the condition under which the conductivity of the material depends on the electric field.   2
(c) In a certain material the drift velocity of electrons is a quadratic function of electric field. Will the material be ohmic or non-ohmic?   2
6. What is electric image? Find the location and magnitude of image charge for a point charge near conducting sheet at zero potential.   6

Section-D

7. Show that the components of electric field $\vec{E}$ in the stationary frame are related to components of electric field $\vec{E}$ in the frame moving with the uniform velocity v along x axis by equations

$E'_x = E_x$
$E'_y = \gamma E_y$
$E'_z = \gamma E_z$

Where $\gamma = 1/\sqrt{1-\frac{v^2}{c^2}}$ 6

8. Derive an expression for the magnetic moment induced in an electron of an atom when diamagnetic material is placed in a uniform magnetic field.   6

Programme	Exam Code	Course Code
Bachelor of Science (Non-Medical)	121301	BSNM-1395 (I)
Bachelor of Science (Computer Science)	121301	BCSM-1395 (I)

Semester-I
Course Title: Physics (Mechanics)
(40)

Time Allowed: 3 Hours   **Max Marks: 60**

Candidates are required to attempt five questions in all, selecting at least one question from each section. The fifth question may be attempted from any of these four sections. Each question carries 12 marks. Students can use Non-scientific calculators or logarithmic tables.

Section A

1. (a) Obtain the relation for displacement and velocity of a particle in spherical polar coordinates.   (8)

(b) If Cartesian coordinates of a point are (1,0,0) and find spherical polar coordinates of a point.

(4)

2. (a) Define solid angle and its units. Obtain an expression for solid angle subtended by the surface of sphere at its centre.

(8)

(b) Derive the expression for volume element in spherical polar coordinates.

(4)

Section B

3. Discuss the concept of ether and its need in brief. Find the expression for fringe shift required in Michelson-Morley experiment in order to proof the existence of ether.

(12)

4. Derive the equation of orbit of a body under inverse square force field. Find expression for turning points and discuss the nature of orbits on the basis of total energy of body.

(12)

Section C

5. (a) Find the Coriolis force on a 500kg mass moving at 100km per hour due north at 30° latitude.

    (4)

    (b) Find expressions for horizontal and vertical accelerations on a particle moving on surface of earth at latitude in northern hemisphere due to rotation of earth. (8)

6. Prove that the laws of conservation of linear momentum and energy remain invariant under Galilean transformations. (12)

Section D

7. Discuss the rotation of angular momentum vector about a fixed axis for a rigid rotator. Hence prove that a torque is always required to produce this rotation. (12)

8. Discuss the scattering of alpha particle from the target nucleus. Prove that the trajectory of alpha particle is hyperbolic. Also find the expression for impact parameter and scattering cross-section. (12)

Exam Code: 121301   Paper Code: 1200

Programme: Bachelor of Science (Semester: I)

Course Title: Physics (Electricity and Magnetism)

Course Code: BSNM-1395 (II) (for Non-Medical)/
BCSM-1395 (II) (for Computer Science)

Time Allowed: 3 Hours   **Max Marks: 40**

Note: Attempt five questions in all, selecting atleast one question from each section. The fifth question may be attempted from any Section. Each question carries **8 marks**. Students can use Non-Scientific calculators or logarithmic tables.

Section A

1. A charge q is distributed uniformly over a thin ring of radius a. Find the electric field $\vec{E}$ due to this ring at the point on the axis of a ring at a distance z from the center. Show that the maximum value of $\vec{E}$ occurs at $z = \frac{a}{\sqrt{2}}$.   (8)

2. (a) The electric intensity in the space between two plates is 10^4 NC^{-1} in the vertically upward direction. Calculate the force on electron and compare it with the weight of electron.   (3)

   (b) Show that the gradient of a scalar field $\varphi(\vec{r})$ at any point is a vector field of magnitude equal to the maximum rate of change of $\varphi(\vec{r})$ in the direction along which the rate of change is most rapid.   (5)

Section B

3. (a) Show that the line integral of a vector field around any closed curve is equal to the surface integral of the curl, if the vector field over a surface is bounded by the curve.   (5)

   (b) Show that the electric field $\vec{E} = 6xy\hat{\imath} + (3x^2-3y^2)\hat{\jmath}$ is conservative.   (3)

4. Show that the potential at a point due to electric dipole, having dipole moment $\vec{p}$ and located at a origin, at any point is $V = \dfrac{\vec{p}.\vec{r}}{4\pi\varepsilon_0 r^3}$

Where $\vec{r}$ is the position vector of the observation point. Using this value of V find the electric field $\vec{E}$ at the same point.   (8)

Section C

5. (a) Show that the potential function x^2-y^2+z satisfies the Laplace's equation (3)

    (b) Derive the equation of continuity

$$\vec{\nabla}.\vec{J} + \frac{\partial \rho}{\partial x} = 0$$

What form will it take for steady currents? (5)

6. (a) Define the term drift velocity. In the absence of any external electric field free electrons in a metallic conductor do not contribute anything towards the current density. Explain. (3)

    (b) State the condition under which the conductivity of the material depends on the electric field. (2)

    (c) In a certain material the drift velocity of electrons is a quadratic function of electric field. Will the material be ohmic or non ohmic? (3)

Section D

7. Discuss by deriving necessary mathematical relations the interaction of a moving charge on the other moving charge and obtain the expression for the force as measured in the laboratory frame. Hence define the magnetic field. (8)

8. Derive an expression for magnetic moment induced in an electron of an atom when diamagnetic material is placed in a uniform magnetic field. (6)

(b) Show that $\mu_r = 1 + \chi_m$, where μ_r is the relative permeability and χ_m is magnetic susceptibility. (2)