

Exam Code: 121301

Paper Code: 1186

**Programme: Bachelor of Science**  
**Semester: I**  
**Course Title: Botany (Diversity of Cryptogams)**  
**Course Code: BSML-1075** ✓

**Time Allowed: 3 Hours**

**Max Marks: 70**

**Note:** Attempt any five questions 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. Explain the following: (3.5 marks each)
  - i) Habitat of algae
  - ii) Sexual reproduction in *Vaucheria*
  - iii) Plurilocular sporangia
  - iv) Post fertilization in *Polysiphonia* (14)
2. Discuss any two of the following: (7 marks each)
  - i) Sexual reproduction in *Volvox*
  - ii) Synzoospores in *Vaucheria*
  - iii) Asexual reproduction in *Ectocarpus* (14)

**Section-B**

3. Illustrate the life history of *Puccinia graminis tritici*. (14)
4. Write notes on the following: (3.5 marks each)
  - i) Economic importance of yeast
  - ii) Apothecium
  - iii) Red rot of sugarcane
  - iv) Late Blight of potato (14)

**Section-C**

5. What are gemma cups in *Marchantia*? Discuss the reproduction by gemma cups in *Marchantia*. Draw a transverse section of vegetative thallus of *Marchantia*. (3+7+4)
6. Write notes on: (7 marks each)
  - i) Sporogonium of *Anthoceros*
  - ii) Capsule of *Funaria* (14)

#### Section- D

7. How many types of gametophytes are found in *Lycopodium*? Illustrate your answers with suitable diagrams of each kind. (14)
8. Write short notes on the following: (3.5 marks each)
  - i) Rhizophore
  - ii) Alteration of generation
  - iii) Mechanism of sporangial dehiscence and spore dispersal in *Pteris*
  - iv) Hydrophytic and xerophytic characters of *Equisetum* stem (14)

## Bachelor of Science (Medical) Semester-I

Course Title: Zoology (Diversity of Nonchordates-I (Protozoa  
Annelida))

Course Code: BSML-1483

Time: 3 Hours

Max. Marks: 70

Note: Attempt five questions, selecting one question from each section. The fifth question can be attempted from any section. Each question carries 14 marks. Draw neat and well labelled diagrams wherever required.

## Section A

1. Discuss the conjugation in Paramecium with the help of well labelled diagrams. 14
2. Describe following with the help of well labelled diagrams:
  - a) Schizogony phase in Plasmodium 7
  - b) Digestion in Paramecium 7

## Section B

3. Discuss the Reproduction in Sycon. 14
4. Explain the histology of polyp in detail. 14

## Section C

5. Give an account of nervous system of Liver fluke. 14
6. Describe life history of Tapeworm. 14

## Section D

7. Explain parasitic adaptations in helminthes in detail. 14
8. Give an account of nervous system of Earthworm. 14

Exam Code: 121301

Paper Code: 9142

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 at least **one** question from each section. The **fifth** question can be attempted from any Section. Each question carries equal (6) marks.

**SECTION-A**

1. (a) Formulate the Schrodinger Wave equation for one electron atomic system in three dimensions from equation  $\Psi = A \sin 2\pi x/\lambda$ . (4)  
(b) What are the conditions that must be fulfilled by the  $\Psi$  for acceptable solution? (2)
2. (a) Calculate de Broglie wavelength of an electron moving with a velocity of  $10^9$  cm/s. Mass of the electron is  $9.11 \times 10^{-31}$  Kg. (3)  
(b) Show diagrammatically how many nodes are present in each of the following:  
(i) 3s-orbital (ii) 2p-orbital (iii) 3d-orbital (3)

**SECTION-B**

3. (a) What is ionization energy? Discuss various factors that affect Ionisation energy? (3)  
(b) Using Slater's rule; find out the screening constant and then the effective nuclear charge for an 3d-electron in zinc ( $Z=30$ )? (3)
4. (a) What is electron affinity? Which has the largest electron affinity F or Cl? Explain why? (3)  
(b) Discuss Pauling Scale of electronegativity in detail? (3)

**SECTION-C**

5. (a) Define Hybridisation. On the basis of hybridization discuss the shape of  $\text{BeF}_2$ ? (3)  
(b) What are electron deficient compounds. Discuss in detail the structure of diborane? (3)
6. (a) How will you account for the smaller bond order of NO as compared to  $\text{NO}^+$ , on the basis of molecular orbital theory? (3)  
(b) Explain the structure of  $\text{PF}_5$  and  $\text{SF}_6$  molecule on the basis of VSEPR theory. (3)

**SECTION-D**

7. (a) What is Radius ratio rule. Discuss in detail radius ratio for tetrahedral site? (4)  
(b) What is Fajan's Rule. How does it help in predicting the covalent character in a bond? (2)
8. (a) Discuss and draw the structure of NaCl and ZnS (Zinc Blende). Write the differences between the two. (4)  
(b) What is meant by n-type and p-type semiconductors? (2)

**Exam Code: 121301**

**Paper Code: 1185**

**Programme: Bachelor of Science (Semester: I)**

**Course Title: Chemistry (Inorganic Chemistry – I:  
Atomic Structure and Periodic Table)**

**Course Code: BSML/BSNL-1084** ✓

**Time Allowed: 3 Hours**

**Max Marks: 70**

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 14 marks.

**Section-A**

1. a) Deduce the Schrodinger wave equation for an electron moving in three dimensions.

b) Show diagrammatically/graphically how many nodes are present in each of the following orbitals:

(i) 1s      (ii) 2s      (iii) 3s      (iv) 3p

(7, 7)

2. a) What is ionisation energy? Discuss the factors which affect ionisation energy and give its variation in a period and in a group in the periodic table.

b) What is effective nuclear charge? Calculate screening constant and effective nuclear charge for its 4s and 3d electron of Zn.

(7, 7)

**Section-B**

3. a) Draw MO diagram of NO and show its bond order. Compare the bond length of NO with that of NO<sup>+</sup>.

b) Explain the structure of NH<sub>3</sub> molecule on the basis of VBT and hybridization.

(7, 7)

4. (a) Draw and discuss the structures of NaCl and CsCl. Show the coordination around each type of ion in these structures? What is the basic difference in these two types of structures?

(b) Construct the Born-Haber cycle for the formation of KCl. How does it explain the stability of ionic compounds?

(7, 7)

#### Section-C

5. (a) How is  $\text{BeCl}_2$  prepared? Draw the structure of  $\text{BeCl}_2$  in solid state and in the vapour state?

(b) Explain: Li forms normal oxide, Na peroxide and K, Rb and Cs the superoxides.

(7, 7)

6 (a) Discuss Lux-Flood theory for acids and bases with suitable examples.

(b) What are conjugate acid- base pairs? Why strong Bronsted acid has weak conjugate base and vice versa?

(7, 7)

#### Section-D

7. (a) Give one preparation of diborane. Explain the structure of diborane on the basis of hybridisation.

(b) What do you understand by back bonding? Why  $\text{N}(\text{SiH}_3)_3$  is trigonal planar, but  $\text{N}(\text{CH}_3)_3$  is pyramidal?

(7, 7)

8. (a) What is Inorganic benzene? Explain its structure.

(b) Why  $\text{CO}_2$  is a gas whereas  $\text{SiO}_2$  is a solid. Explain in detail.

(7, 7)

Exam Code: 121301

(For Reappear Candidates Only (2022-23))

Paper Code: 9143

Programme: Bachelor of Science (Semester-I)  
Course Title: Chemistry (Organic Chemistry)  
Course Code: BSMM/BSNM-1084(II)

Time Allowed: 3 Hours

Max Marks: 30

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 (6) marks.

**SECTION-A**

- (a) Describe the Average Electron Theory used to determine formal charges on various atoms within a molecule. Illustrate your explanation with a justified example, using the methyl carbocation. (3)  
(b) How does resonance help in explaining relative acid strength of phenols and alcohols. (3)
- (a) Give the main points of difference between inductive effect and electromeric effect. (3)  
(b) Compare singlet and triplet carbenes. Explain why triplet carbenes are more stable than singlet carbenes, with a detailed discussion of their orbital structures. (3)

**SECTION-B**

- (a) Bromine is less reactive but more selective whereas chlorine is more reactive but less selective. Explain. (3)  
(b) Discuss the mechanism of hydrogenation of alkenes and explain how heat of hydrogenation can be used to explain the stability of alkenes. (3)
- (a) Explain the Wurtz reaction and its mechanism. Can this method be used for synthesizing unsymmetrical alkanes? If not, provide a reason for its unsuitability. (3)  
(b) Dehydration of 1-butanol and 2-butanol give the same mixture of alkenes. (3)

**SECTION-C**

- (a) Explain Baeyer's strain theory in brief. How does it account for the reactivity of cyclopropane and cyclobutane rings? Also, discuss the limitations of this theory. (3)  
(b) Justify that  $S_N2$  reactions proceeds with inversion of configuration. (3)
- (a) Give the elimination-addition mechanism of aryl halides taking the example of conversion of chlorobenzene into aniline. (3)  
(b) Give a brief explanation of the Sachse-Mohr theory of strainless rings. How does this theory explain the stability of cycloalkanes with six or more carbon atoms? (3)

**SECTION-D**

- (a) Define the term aromaticity. How is it related to Huckel rule. (3)  
(b) Discuss the mechanism of the following reaction (3)



- (a) Explain meta directing nature of nitro group. (3)  
(b) What do  $\sigma$  and  $\pi$  complexes refer to? How do they contribute to aromatic electrophilic substitution reactions? Explain with the help of an energy profile diagram. (3)

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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
Bachelor of Business Administration (Airlines and Airport Management)	509501	BBML-1421

**Semester-I**

**Course Title: Punjabi (Compulsory)**  
**(300)**

**Time Allowed: 3 Hours**

**Max Marks: 70**

ਨੋਟ:- ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਦੇ ਚਾਰ ਸੈਕਸ਼ਨ ਹਨ। ਹਰੇਕ ਵਿੱਚੋਂ ਇੱਕ ਪ੍ਰਸ਼ਨ ਕਰਨਾ ਲਾਜ਼ਮੀ ਹੈ। ਪੰਜਵਾਂ ਪ੍ਰਸ਼ਨ ਕਿਸੇ ਵੀ ਸੈਕਸ਼ਨ ਵਿੱਚੋਂ ਕੀਤਾ ਜਾ ਸਕਦਾ ਹੈ। ਹਰੇਕ ਪ੍ਰਸ਼ਨ ਦੇ ਅੰਕ 14 ਹਨ।

### ਸੈਕਸ਼ਨ - 1

1. ਰਾਧਾ ਸੰਦੇਸ਼ ਕਵਿਤਾ ਦਾ ਵਿਸ਼ਾ ਵਸਤੂ ਲਿਖੋ ।
2. ਮਜ਼ਦੂਰ ਕਵਿਤਾ ਦਾ ਸਾਰ ਲਿਖੋ ।

### ਸੈਕਸ਼ਨ - 2

3. ਮੀਰਾ ਬਾਈ ਜੀਵਨੀ ਦੇ ਆਧਾਰ 'ਤੇ ਉਸਦਾ ਨਾਇਕ ਬਿੰਬ ਉਸਾਰੋ।
4. ਗੁਰੂ ਰਾਮਦਾਸ ਜੀ ਦੀ ਜੀਵਨੀ ਦਾ ਸਾਰ ਲਿਖੋ ।

### ਸੈਕਸ਼ਨ - 3

5. ਹੇਠ ਲਿਖੇ ਕਿਸੇ ਇਕ ਵਿਸ਼ੇ ਤੇ ਪੈਰਾ ਰਚਨਾ ਕਰੋ।
  1. ਲਾਇਬਰੇਰੀ
  2. ਫੈਸ਼ਨ
  3. ਕਿਰਤ
6. ਹੇਠ ਲਿਖੇ ਪੈਰ੍ਹੇ ਨੂੰ ਪੜ੍ਹ ਕੇ ਦਿੱਤੇ 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 ਜਮੀਨ ਅਸਮਾਨ ਦਾ ਫਰਕ 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, ਉੱਥੋਂ ਜਹਾਂਗੀਰ ਬਿਲਕੁਲ ਉਸ ਦੇ ਵਿਰੁੱਧ ਇਸਲਾਮੀ ਤੁਅੱਸਬ ਦਾ ਪੁਤਲਾ ਸੀ ਤੇ ਆਪਣੇ ਬਾਪ ਦੇ ਧਾਰਮਿਕ ਵਿਚਾਰਾਂ ਦੇ ਕਾਰਨ ਉਸ ਦੇ ਅੰਦਰੋਂ-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. ਜਹਾਂਗੀਰ ਨੇ ਅੱਬੁਲ ਫਜ਼ਲ ਨੂੰ ਕਿਉਂ ਮਰਵਾਇਆ ਸੀ?
3. ਅਕਬਰ ਦਾ ਜਹਾਂਗੀਰ ਨਾਲ ਕੀ ਰਿਸ਼ਤਾ ਸੀ?
4. ਪੈਰੋ ਦਾ ਢੁੱਕਵਾਂ ਸਿਰਲੇਖ ਦਿਉ।

**ਸੈਕਸ਼ਨ - 4**

7. ਉਪ ਭਾਸ਼ਾ ਦੀ ਪਰਿਭਾਸ਼ਾ ਦਿੰਦਿਆਂ ਪੰਜਾਬੀ ਉਪ ਭਾਸ਼ਾਵਾਂ ਦੇ ਪਹਿਚਾਣ ਚਿੰਨ੍ਹ ਦੱਸੋ ।
8. ਟਕਸਾਲੀ ਭਾਸ਼ਾ ਦੀ ਪਰਿਭਾਸ਼ਾ ਦਿੰਦਿਆਂ ਇਸ ਦੀਆਂ ਵਿਸ਼ੇਸ਼ਤਾਵਾਂ ਦੱਸੋ।

**Paper Code: 1112**

<b>Programme</b>	<b>Exam Code</b>	<b>Course Code</b>
Bachelor of Arts	121201	BARL-1212 ✓
Bachelor of Science (Medical)	121301	BSML-1212 ✓
Bachelor of Science (Non-Medical)		BSNL-1212 ✓
Bachelor of Science (Computer Science)		BCSL-1212 ✓
Bachelor of Science (Economics)		BECL-1212 ✓

**Semester-I**

**Course Title: English Language Skills - I  
(230)**

**Time Allowed: 3 Hours**

**Max Marks: 70**

**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. Each question carries equal marks.**

**SECTION A**

**Q1. (i) Put the verb into the correct form, positive or negative**

- a. The washing machine has been repaired \_\_\_\_ (It/work) now.

- b. Ben is a student, but he's not very happy. \_\_\_\_  
(He/enjoy) his course.

**(ii) You ask Lisa questions about herself & her family.  
Write the questions.**

- a. You know that Lisa plays Tennis. You want to know  
how often. Ask her

- How often \_\_\_\_

- b. You know that Lisa goes to the cinema a lot.

You want to know how often. Ask her

How often \_\_\_\_

**(iii) Put the verb in the correct form, present continuous  
or present simple.**

1. a. \_\_\_\_ (you/listen) to the radio ? 'No, you can turn  
it off'.  
b. \_\_\_\_ (you/listen) to the radio a lot? 'No, not very  
often'.
2. (a). \_\_\_\_ (I/get) hungry. Let's go and eat  
something  
(b) \_\_\_\_ (i/usually/get) hungry in the afternoon

**(iv) Are the underlined verbs ok? Correct them where necessary.**

- a. Nicky is thinking of giving up her job
- b. It's not true. I'm not believing it.

**(v) Complete the sentences and put the verbs into the correct form, positive or negative.**

- a. We were very tired, so we \_\_\_\_\_ the party early.  
(leave)
- b. The watch wasn't expensive. It \_\_\_\_\_ much. (cost)

**(vi) Put the verb into the correct form, past continuous or past simple.**

- a. I \_\_\_\_\_ (see) Sue in town yesterday, but she \_\_\_\_\_  
(not/see) me.
- b. I \_\_\_\_\_ (cycle) home yesterday when a man \_\_\_\_\_ (step)  
out into the road in front of me.

**(vii) Put in been or gone**

- a. My parents are on holiday. They've \_\_\_\_\_ to Italy
- b. Hello! I've just \_\_\_\_\_ to the shops. I have bought lots  
of things

**Q2. (i) You ask people about things they have done. Write questions with ever.**

- a. (ride/horse)
- b. (be/California)

**(ii) Read the situations and complete the sentences**

- a. It's raining. The rain started two hours ago  
It's \_\_\_\_\_ for two hours.
- b. I am learning Japanese. I started classes in December  
I \_\_\_\_\_ since December.

**(iii) Read the situation and complete the sentences. Use verb in brackets**

- a. Tom started reading a book two hours ago. He is still reading it and now he is on page 53.  
\_\_\_\_\_ for two hours. (read)  
\_\_\_\_\_ 53 pages so far. (read)
- b. When they left college, Lisa and Sue started making films together. They still make films.  
They \_\_\_\_\_ films since they left college. (make)  
\_\_\_\_\_ five films since they left college. (make)

**(iv) Which is correct:**

- a) I like your house. How long do you live/have you lived here?
- b) Lisa is in Germany. She's/She's been there on a business trip.

**(v) Put the verb into the correct form , present or past , active or passive:**

- a) The boat hit a rock and \_\_\_\_\_ (sink) quickly.
- b) Fortunately everybody \_\_\_\_\_ (rescue).

**(vi) Complete the sentences. Use the present perfect where possible. Otherwise use the past simple**

- a) I can't get in. I \_\_\_\_ (lose) my key
- b) The office is empty now. Everybody \_\_\_\_ (go) home

**(vii) Write sentences about yourself using ideas in brackets**

- a) (something you didn't do yesterday)
- b) (something you've done recently)

**SECTION-B**

**Q3. write a Paragraph on:**

The influence of peer pressure in college life.

**Q4. (i) Complete the sentences.**

- a. I would be very scared if \_\_\_\_\_ (somebody/point) gun at me.
- b. If you had a party, who \_\_\_\_\_ (you/invite)?

**(ii) Write sentences with IF for each situation**

- a. We don't see you very often because you live so far away
  - We \_\_\_\_\_ if \_\_\_\_\_
- b. We would like to go on a holiday but we can't afford it
  - We \_\_\_\_\_ if \_\_\_\_\_

**(iii) For each situation, write a sentence with I wish**

- a. You have eaten too much and now you feel sick  
You say :  
I wish \_\_\_\_\_
- b. When you were young, you never learnt to play a musical instrument. Now you regret this  
You say :  
I wish \_\_\_\_\_

**(iv) Complete the sentences**

- a. Jack is going on a trip to Mexico soon. I wish I \_\_\_\_\_ too.

- b. I am very tired and I have so much to do. I wish I \_\_\_\_\_ so tired.

**(v) Put the verb in correct form present or past, active or passive**

- a. Two hundred people \_\_\_\_\_ (employ) by the company.

The company \_\_\_\_\_ (employ) two hundred people.

- b. Water \_\_\_\_\_ (cover) most of the earth surface.

How much of the earth's surface \_\_\_\_\_ (cover) by water.

**(vi) Make sentences from the words in brackets. Sometimes the verb is active or passive.**

- a. I went into the room and saw that the table and the chairs were not in the same place.

(The furniture/move). The \_\_\_\_\_

- b. The bridge was damaged recently.

(it/repair at the moment) It \_\_\_\_\_

**(vii) Complete the sentences.**

- a. I have been \_\_\_\_\_ the job, but I don't think that I will accept it.
- b. Which year \_\_\_\_\_ you born in?

### SECTION-C

**Q5. (a)** Write in detail the character descriptions of misers and spendthrifts as depicted in the chapter On Spendthrifts?

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

**Q6. a)** What is the main argument given by Richard Gordon in The Power Of Women?

(b) The Universal Declaration of Human Rights is a charter for the full growth of the potential of the human being. Discuss in detail.

### SECTION-D

**Q7. (a)** What themes does R.K Narayan explore in the Beauty and The Beast?

(b) Write in detail the story of Pabuji's heroism and its impact on the audience.

**Q8. (a)** What role does humour play in Symptoms?

(b) Give a character sketch of Miss Beam in The School for Sympathy.

**Paper Code: 1105**

<b>Programme</b>	<b>Exam Code</b>	<b>Course Code</b>
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 Science (Medical Laboratory Technology )	509701	BMLL-1031
Bachelor of Commerce	121101	BCRL-1031
Bachelor of Business Administration	121701	BBRL-1031
Bachelor of Business Administration (Airlines and Airport Management)	509501	BBML-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**

**(50)**

**Time Allowed: 3 Hours**

**Max Marks: 70**

ਨੋਟ:- ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਦੇ ਚਾਰ ਸੈਕਸ਼ਨ ਹਨ। ਹਰੇਕ ਭਾਗ ਵਿੱਚੋਂ ਇੱਕ ਪ੍ਰਸ਼ਨ ਕਰਨਾ ਲਾਜ਼ਮੀ ਹੈ। ਪੰਜਵਾਂ ਪ੍ਰਸ਼ਨ ਕਿਸੇ ਵੀ ਸੈਕਸ਼ਨ ਵਿੱਚੋਂ ਕੀਤਾ ਜਾ ਸਕਦਾ ਹੈ। ਹਰੇਕ ਪ੍ਰਸ਼ਨ ਦੇ ਅੰਕ 14 ਹਨ।

#### ਸੈਕਸ਼ਨ 1

1. ਲਗਾਂ ਮਾਤਰਾਵਾਂ ਤੋਂ ਕੀ ਭਾਵ ਹੈ ਸੰਖੇਪ ਜਾਣਕਾਰੀ ਦਿਓ।
2. ਲਗਾਖਰ ਦੀ ਪਰਿਭਾਸ਼ਾ ਦਿੰਦੇ ਹੋਏ ਉਦਾਹਰਨਾਂ ਸਹਿਤ ਜਾਣਕਾਰੀ ਦਿਓ।

#### ਸੈਕਸ਼ਨ 2

3. ਸੰਯੁਕਤ ਸ਼ਬਦ ਤੋਂ ਕੀ ਭਾਵ ਹੈ ਉਦਾਹਰਣ ਸਹਿਤ ਬਿਆਨ ਕਰੋ।
4. ਪਿਛੇਤਰ ਦੀ ਪਰਿਭਾਸ਼ਾ ਦਿੰਦੇ ਹੋਏ ਕੋਈ ਪੰਜ ਪਿਛੇਤਰ ਬਣਾਓ।

#### ਸੈਕਸ਼ਨ 3

5. ਵਪਾਰ ਨਾਲ ਸੰਬੰਧਿਤ ਕੋਈ 10 ਸ਼ਬਦ ਲਿਖੋ।
6. ਕੋਈ ਦਸ ਰਿਸ਼ਤਿਆਂ ਦੇ ਨਾਮ ਲਿਖੋ।

#### ਸੈਕਸ਼ਨ 4

7. ਹਫ਼ਤੇ ਦੇ ਸੱਤ ਦਿਨਾਂ ਦੇ ਨਾਮ ਲਿਖੋ।
8. ਰੁੱਤਾਂ ਦੇ ਨਾਮ ਲਿਖੋ।

**Paper Code: 1108**

<b>Programme</b>	<b>Exam Code</b>	<b>Course Code</b>
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 Science (Medical Laboratory Technology )	509701	BMLL-1431
Bachelor of Commerce	121101	BCRL-1431
Bachelor of Business Administration	121701	BBRL-1431
Bachelor of Business Administration (Airlines and Airport Management)	509501	BBML-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: 70**

**Candidates shall attempt 5 questions in 800 words each by selecting atleast one question from each section and the 5<sup>th</sup> question may be attempted from any of the four Sections. Each question carries 14 marks.**

**Section-A**

1. Discuss the physical features of the Punjab. What were social, economic and religious effects of those features?
2. Describe the literary and Archaeological sources of the ancient history of Punjab.

**Section-B**

3. Study the Social and economic life of people of Indus Valley People.
4. Discuss the various theories regarding original home of Aryans in Punjab.

**Section-C**

5. Briefly describe the religious life of people of Rig Vedic Age?
6. Briefly describe the economic life of people of Later Vedic Age?

**Section-D**

7. What is the contribution of Mahatma Buddha.
8. Discuss the contribution of Mahavir Swami.

## Hindi Version

### भाग-1

1. पंजाब की भौतिक विशेषताओं पर चर्चा करें। उन विशेषताओं के सामाजिक, आर्थिक और धार्मिक प्रभाव क्या थे?
2. पंजाब के प्राचीन इतिहास की साक्षरता एवं पुरातात्विक स्त्रोतों का वर्णन करें।

### भाग-2

3. सिंधु घाटी के लोगों के सामाजिक और आर्थिक जीवन का अध्ययन करें।
4. पंजाब में आर्यों के मूल निवास स्थान के संबंध में विभिन्न सिद्धांतों पर चर्चा करें।

### भाग-3

5. ऋग्वैदिक युग के लोगों के धार्मिक जीवन का संक्षेप में वर्णन करें?
6. उत्तर वैदिक युग के लोगों के आर्थिक जीवन का संक्षेप में वर्णन करें?

#### भाग-4

7. महात्मा बुद्ध का योगदान क्या है?
8. महावीर स्वामी के योगदान की चर्चा करें।