Exam. Code : 303502
Subject Code : 6633

PGDCA Semester–II

NETWORK CONCEPTS & MANAGEMENT
(Hardware, Software, Setting in Linux/Unix/NT Environment)

Paper–I

Time Allowed—3 Hours]   [Maximum Marks—50

Note : Attempt any **five** questions. Each question carries equal marks.

1. What are the typical hardware and software requirements of a compter network ? How Local Area Network (LAN) is different from Wide Area Network (WAN) ?

2. Compare OSI reference model with TCP/IP model.

3. Write short notes on the following :

    (a) ISDN

    (b) ATM.

4. What do you mean by cryptography ? What are the different techniques of cryptography ? Explain any one in detail.

5. Explain IP addressing schemes in detail.

6. Explain the following in relevance to Windows NT Server :

    (a) Primary Domain Controller

    (b) Backup Domain Controller.

7. What do you mean by file system ? Explain the structure of Unix file system.

8. What are the basic functions of shell ? Explain the different types of shells used in UNIX operating system.

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Exam. Code : 303502
Subject Code : 6634

PGDCA Semester–II

PROGRAMMING IN C

Paper–II

Time Allowed—3 Hours]   [Maximum Marks—50

Note : Attempt any **five** questions. All questions carry equal
marks.

1. What are the various data types available in C ?
   Briefly discuss each with an example.

2. What are the various looping constructs used in C ?
   Discuss and compare each with an appropriate example.

3. Discuss in detail the various storage classes available
   in C. Give examples of each.

4. What is recursion ? How recursion is implemented in
   a C program ? Write a recursive program in C to find
   the factorial of a given number.

5. What do you mean by an array ? List the advantages
   of arrays. How an array can be initialized in C ? Also
   discuss how an array is passed to a function.

6. What is a Structure ? What are the operations that can
   be performed on a structure ? How is a structure
   declared in C ? What is a nested structure ?

7. What are Pointers ? What are the advantages and problems of using pointers ? How is a pointer declared in C ? Differentiate between a pointer to an array and an array of pointers giving example.

8. Write a program in C to read a text file and count the occurrrences of any two vowels in succession.

Exam. Code : 303502
Subject Code : 6635

PGDCA Semester–II

INTRODUCTION TO SCRIPTING LANGUAGES, WEB DESIGNING & USES OF INTERNET

Paper–III

Time Allowed—3 Hours]　　　　[Maximum Marks—50

Note : (1)　Attempt **five** questions in all by selecting at least **one** from each of Units I, II and III.

(2)　All questions carry equal marks.

UNIT—I

1. (a) Define structure of any HTML Document with justification. 5

   (b) What are the limitations of HTML ? Explain in detail. 5

2. (a) How Hyperlinks, tags and character entities are defined for HTML documents ? Explain. 5

   (b) What are frames ? Why are they important in HTML ? Explain through example. 5

UNIT—II

3. (a) Explain various features of Front Page 2000 in detail. 5

   (b) How a web-site is created using various operations of wizard ? Explain. 5

4. (a) What is Template ? How are they applied in FrontPage ? 5

(b) Write any three operations to be carried on Images in FrontPage. 5

5. (a) Explain any two Toolbars of FrontPage. 5

(b) How Themes and Forms are inserted in FrontPage to make web-site ? Explain. 2.5+2.5

UNIT—III

6. Define Internet. Explain various types of Internet connectivity in detail through examples. 2+8

7. (a) Explain the importance of World Wide Web. 5

(b) What is Virus ? Explain danger of virus. 5

8. Write notes on any **two** :

(a) Virtual Reality

(b) Web Publishing

(c) Cyber Crime. 5×2=10

Exam. Code : 303502
Subject Code : 6636

PGDCA Semester–II
PROGRAMMING IN VISUAL BASIC WITH ACTIVEX
Paper–IV Opt. (i)

Time Allowed—3 Hours] [Maximum Marks—50

Note : Attempt any **five** questions. All questions carry equal marks.

1. Give a detailed description on Integrated Development Environment (IDE) of Visual Basic. Explain the steps involved in adding a tool bar control to a VB interface.

2. Compare the features of MDI and SDI type of VB applications with sample codes. Also give an example of VB event procedure.

3. What are ActiveX Data Objects (ADO) ? What are the advantages of ADO data control ? Explain different objects of ADO model.

4. Explain about ActiveX controls. State the advantages of ActiveX controls and write a simple program to create a simple ActiveX control.

5. What is DLL ? Explain the types of DLL's and their use with examples.

6. Write a VB program that handles the click event of the right mouse button with a welcome message and explain it in detail.

7. What is a file ? Explain the use of File System controls in VB by taking suitable examples.

8. Compare and contrast the following with examples :

    (a) Modal and modeless dialog boxes

    (b) Software testing and debugging.