Exam. Code : 303502
Subject Code : 7223

P.G. Diploma in Computer Application (PGDCA)
2nd Semester

NETWORK CONCEPTS AND MANAGEMENT
(Hardware, Software, Setting in LINUX/UNIX/
NT Environment)

Paper—I

Time Allowed—3 Hours]   [Maximum Marks—50

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

1. What are the goals of Computer Network ? Discuss the typical hardware and software requirements for setting up a computer network. Also mention software/hardware required for security of the network.

2. Compare and contrast OSI and TCP/IP reference models. Give areas where each of these is used.

3. Differentiate between Routers, Hubs and Switches in detail.

4. Discuss the various data compression techniques used in network security.

5. Elaborate in detail the IP addressing schemes.

6. Explain in detail about managing domain controllers.

7. Explain in detail the architecture of Unix operating system.

8. Write short notes on the following :

   (a) ATM

   (b) Cryptography.

Exam. Code : 303502

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PROGRAMMING IN C

Paper–II

Time Allowed—3 Hours]   [Maximum Marks—50

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

1. Explain various characteristics of C programming language.

2. What is an operator ? Explain the arithmetic, relational, logical, and assignment operators in C programming language.

3. Explain various types of looping statements available in C programming language with help of examples.

4. (a) What is an array ? Explain the declaration and initialization of one and two dimensional arrays with example.

   (b) Write a program to find the average of 10 numbers.

5. Explain the concept of passing arrays argument to function with the help of a suitable example.

6. (a) What is a pointer ? What is the use of pointers ? Explain how the pointer variable is declared and initialized.

   (b) Write a C program to swap two numbers using pointers.

7. What do you mean by "array of structure"? Write a C program to maintain a record of "n" student details using an array of structures with four fields (Roll number, Name, Marks and Grade). Each field is of an appropriate data type.

8. Explain file handling in C programming language in detail.

Exam. Code : 303502
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INTRODUCTION TO SCRIPTING LANGUAGES, WEB DESIGNING & USES OF INTERNET

Paper—III

Time Allowed—3 Hours] [Maximum Marks—50

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

1. What is HTML ? What are the different types of lists in HTML ? Explain how these lists are created in HTML with suitable examples.

2. What is a HTML form ? Explain the form elements in detail. Design a form in HTML containing the data of a student (Name, Roll-No, Branch, Address, E-mail address, Submit Button, Clear Button).

3. (a) What does HTTP mean ? Give its historical perspective. What are the differences between the various HTTP methods and when each method should be used ?

   (b) What is meant by "Uniform Resource Locator" ? Give an example of 'URL' and explain the meaning of its various fields.

4. What is the use of Front Page Software ? Explain the salient features of this software to create a web-site.

5. Explain the following in the context of Front Page Software :

   (a) Setting up of Marquee and counter

   (b) Image manipulation operations.

6. What is Internet ? How does the Internet work ? Explain the four methods used for connecting to the Internet.

7. Describe the protocols and operations of key Internet applications such as World Wide Web, File Transfer (FTP), and E-mail.

8. What is a Cyber Crime ? What are its kinds and classification ? What are various modes and techniques of Cyber Crime ?

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PROGRAMMING IN VISUAL BASIC WITH ACTIVE X

Paper–IV Opt(i)

Time Allowed—3 Hours] [Maximum Marks—50

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

1. (a) Explain various elements of Integrated development environment of Visual Basic. 5

   (b) Develop a VB application to convert lower case to upper case and vice-versa. 5

2. (a) Explain any five tools of VB tool bar with examples. 5

   (b) Define testing. How do you do the testing in Visual Basic ? Explain. 1+4

3. (a) Explain debugging tool in detail provided by Visual Basic. 5

   (b) What is event ? Explain event driven programming in context of Visual Basic. 5

4. Define files. Explain which type of files can be created in Visual Basic. Explain by writing a Visual Basic program for at least two files operations of your choice.

   2+2+6

5. Write a VB program to illustrate the concept of Data Access objects with the inputs and outputs of that program.
10

6. (a) What is Remote data object ? How are they created and wed ? Explain. 5

   (b) Write a VB program to exemplify the concept of ADO. 5

7. (a) How data-reports are generated and why ? 5

   (b) How OLE control works to perform object linking and embedding ? Explain. 5

8. (a) What is Active-X control ? How their properties are specified and accessed in VB ? Explain. 5

   (b) What is the use of Dynamic link library ? Explain the procedure to access them in VB. 5