BT-4/J-22   **44152**

INTERNET TECHNOLOGY AND MANAGEMENT

Paper : PC-CS-204A

Time : Three Hours]   [Maximum Marks : 75

Note : Attempt *five* questions in all, selecting at least *one* question from each unit. All questions carry equal marks.

UNIT–I

1. What is the Internet? Distinguish between Internet and Intranet and describe the working of the Internet with a description of the following :

    (a) End systems and Routers.

    (b) Backbone and Access networks.

    (c) ISP.

2. Answer the following in brief :

    (a) How are Internet addresses organized?

    (b) What are the various modes of connecting to the Internet?

    (c) How is the purpose of DNS in the Internet?

UNIT–II

3. Answer the following questions in the context of World Wide Web :

   (a) What is a Web browser? Name some popular Web browsers.

   (b) How does a search engine work?

   (c) What is the role of HTTP and FTP?

4. (a) Sketch the TCP/IP model and give a brief description of its core protocols.

   (b) Describe HTML documents in terms of its elements and specify the basic structure of an HTML document. How are links created in HTML?

UNIT–III

5. What are the various components of E-mail architecture? Describe how an e-mail system works? Describe the purpose of MIME in an e-mail system.

6. (a) What can you do with the help of 'Forms' and 'Frames' in HTML? Explain the various elements of a Form with examples.

   (b) Give an overview of Java Script along with its advantages. Give a brief description of Java Script development tools.

UNIT–IV

7. Answer the following questions in brief :

   (a) Give an introduction of Web Servers and name some popular web servers.

   (b) Describe the access and usage of any *one* of the web servers.

   (c) What is the purpose of an Intrusion detection system?

8. (a) Describe the threats and attacks to which the Internet may be vulnerable.

   (b) What is the role of encryption, digital signature and firewalls in the context of network security?