

Roll No.

Total Pages : 3

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?

