

Roll No.

Total Pages J 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 :

How are Internet addresses organized?

What are the various modes of connecting to the Internet?

How is the purpose of DNS in the Internet?

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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?