BCA/M-21   **1902**

INTERNET TECHNOLOGIES

Paper–BCA-364

Time Allowed : 3 Hours]   [Maximum Marks : 80

Note : Attempt **five** questions in all, selecting **one** question from each Unit. Question No. **1** is compulsory. All questions carry equal marks.

Compulsory Question

1. Attempt all questions :   4×4=16

    (a) Explain Network News Transfer Protocol.

    (b) Distinguish between TCP and UDP.

    (c) Explain structure of E-mail message.

    (d) Write a note on E-mail Security.

UNIT–I

2. How can we create and search Information on the Web portal ? Explain various popular search engines in detail with examples.   16

3. Explain various layers of TCP/IP reference Model in detail.   16

UNIT–II

4. What do you mean by IP Address ? Explain various services and classes of IPv4 addresses.   16

5. Explain the Internet Control Message Protocols and Internet Group Message Protocols in detail.   16

UNIT–III

6. Write short notes on the following Protocols :   16

    (a) SMTP   (b) MIME

    (c) POP   (d) IMAP.

7. (a) Explain FTP server and its types. Also explain basic Model of FTP.

        8

    (b) What is TFTP ? Explain its features and operations.   8

UNIT–IV

8. Explain the RIP, BGP and OSPF protocols in detail.   16

9. Explain Internet Protocol Security (IPSec). Also explain its goals and architecture in detail.   16