BCA/M-22   1887
INTERNET TECHNOLOGY
BCA-364

Time : Three Hours]   [Maximum Marks : 80

Note : Question No. **1** is compulsory. In addition attempt *four* more questions, selecting *one* question from each Unit. All questions carry equal marks.

1. Attempt all the following :   4×4=16

    (a) IP Addressing

    (b) UDP

    (c) Telnet

    (d) MIME.

Unit I

2. Explain various internet services. Explain the following terms related to internet : web server, search engines, URL, HTTP, Web Browsers, USENET and NNTP.   16

3. Explain TCP/IP reference model and its architecture, layers and protocols. Distinguish between OSI and TCP/IP reference model.   16

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Unit II

4. Describe TCP. What are various fields of TCP Header ? Explain TCP connection management in detail.   **16**

5. Explain the following terms with header format : **4×4=16**

    (a) IPv6

    (b) ARP

    (c) IGMP

    (d) ICMP.

Unit III

6. Explain the following terms :   **4×4=16**

    (a) SMTP

    (b) RTP

    (c) RSVP

    (d) Voice and video over IP.

7. (a) Explain e-Mail Architecture and Services.   **8**

    (b) What do you mean by FTP ? Explain data transfer in FTP.   **8**

Unit IV

8. (a) Explain Routing Information Protocol in detail. **8**

    (b) What is Internet Security ? Explain IPSec in detail.

     8

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9. Explain the following terms :   4×4=16
   - (a) BGP
   - (b) Mobile IP
   - (c) NAT
   - (d) Firewall.

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