

Roll No.

Total Pages : 03

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 TOPPERWorld

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**

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 : $4 \times 4 = 16$
- (a) IPv6
 - (b) ARP
 - (c) IGMP
 - (d) ICMP.

Unit III

6. Explain the following terms : $4 \times 4 = 16$
- (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

9. Explain the following terms :

4×4=16

- (a) BGP
- (b) Mobile IP
- (c) NAT
- (d) Firewall.

