

Roll No.....

Total Pages: 3  
**1916**

**BCA/M-17**  
**INTERNET TECHNOLOGIES**  
Paper: BCA-364

Time: Three Hours

Maximum Marks: 80

Note: Attempt five questions including No. 1 which is compulsory. All questions carry equal marks.

**Compulsory Question**

1. (a) State the major services of Internet.  
(b) Differentiate between Internet and Internet.  
(c) What do you mean by port numbers?  
(d) What is meant by DNS?  
(e) What is RSVP?  
(f) What are the functions of E-mail?  
(g) What is the need of routing in Internet?  
(h) What do you mean by Web security?

Unit-I

2. Write short notes on the following :
  - (i) HTTP
  - (ii) NNTP
  - (iii) USENET
  - (iv) Bulletin Board.
3. Differentiate between TCP/IP and OSI model.

Unit-II

4. (a) What do you mean by UDP and IP? Describe their major features and format in detail.  
(b) What is the need of IPv6 addressing? Describe the packet format of IPv6.
5. (a) Discuss various ways for mapping Internet addresses to physical addresses.  
(b) Explain remote procedure call.

Unit-III

6. (a) Explain Anonymous FTP and TFTP.  
(b) Explain POP and IMAP in brief.

7. (a) Explain the concept of Video over IP. How does it work?  
(b) What do you mean by IP telephony and signaling?

#### Unit-IV

8. (a) Explain BGP and OSPF along with their features.  
(b) What is NAT? Explain purpose of NAT.
9. Explain the following in detail:
  - (a) SSL.
  - (b) E-mail security.