Roll No.........................   **1253**

BCA /1V1-14
INTERNET TECHNOLOGY
Paper—BCA-363

Time allowed : 3 hours]   [Maximum marks : 80

Note: Attempt five questions in all, selecting exactly one question from each unit.

Question number 1 is compulsory, All questions carry equal marks.

Compulsory Question

1. (a) State the major characteristics of Internet.

   (b) Describe the IP address format.

   (c) What are the roles of TCP and UDP ?

   (d) Discuss the working of DNS in brief

   (e) What is POP?

   (f) What are the functions of RTCP ?

   (g) What are the various types of routing in Internet?

   (h) What do you mean by E-mail security?   8 x2=16

Unit—I

2. (a) Describe various ways to connect to Internet.   8

   (b) Differentiate betweeniPv4 and IPv6. 8

3. Describe TCP / IP model along with various protocols used in it.   16

Unit—II

4. (a) What is SCTP ? Describe its major features and format in detail.   8

   (b) Describe various services provided by TCP.   8

5. Write short notes on following: 16

   (i) ARP   (ii) ICMP

   (iii) BOOTP   (iv) DHCP

6. (a) Explain E-mail architecture and various services provided by E-mail.   8

   (b) Explain SMTP and MIME in brief. 8

7. (a) Explain the concept of VOIP. How does it work?   8

   (b) What is FTP ? Explain various types of FTP servers and FTP clients.   8

8. (a) Explain RIP and OSPF along with their features.   8

   (b) What is VPN ? Explain various types of VPN.   8

9. Explain following in detail: 16

   (i) Digital Signature

   (ii) IPS ec.