

30/04/2019

Roll No. ....  
Printed Pages : 2

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BCA / M-19  
INTERNET TECHNOLOGIES  
Paper-BCA-364

Time allowed : 3 hours]

[Maximum marks : 80

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

**Compulsory Question**

1. (a) Briefly explain Domain Name System (DNS).  
(b) What is the need of IPV6?  
(c) Explain the concept of MIME.  
(d) Define term RSVP.  
(e) Explain VPN.  
(f) Define Internet Multicasting.  
(g) What is routing Protocol ?  
(h) What is the main purpose of HTTP ? 8×2=16

**Unit-I**

2. What do you mean by search engines ? List the name of any five popular search engines. How information is searched over the web ? How you can make your search effective ? 16
3. What is TCP/IP Model ? Explain the functions and protocols and services of each layer. Compare it with OSI Model. 16

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[Turn over

(2)

**Unit-II**

4. (a) How connection is established and terminated in TCP using three way handshaking mechanism ? Describe in detail.  
(b) Write a detailed note on UDP. 10+6=16
5. (a) Differentiate between DHCP and ICMP.  
(b) What is DNS mapping ? How internet address is mapped to physical address. 8+8=16

**Unit-III**

6. What is Electronic mail ? Explain the two scenarios of the architecture of Email. Discuss POP and IMAP protocols. 16
7. Write short note on the following : 8+8=16  
(a) Anonymous FTP and NFS  
(b) Telephony and Signaling

**Unit-IV**

8. Discuss in detail about the reliable flooding technique based on link state (BGP) protocol. 16
9. Briefly explain the following : 8+8=16  
(a) Network Address Translation (NAT)  
(b) IPsec and SSL

