

- Q.16 Expand CSMA/CD. (CO-1)
 Q.17 Identify the class of IP address 156.72.15.1. (CO-6)
 Q.18 Browser uses ____ protocol to access web page. (CO-6)
 Q.19 Expand CRC. (CO-3)
 Q.20 IP address 127.0.0.1 is a loopback address? (True/False) (CO-3)

SECTION-C

Note: Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

- Q.21 Explain in brief the network computing models. (CO-1)
 Q.22 Compare LAN, MAN and WAN on speed of transmission, reliability, design complexity, ownership & scale. (CO-6)
 Q.23 Explain three network services for users in brief. (CO-1)
 Q.24 Explain Circuit Switching with its merits and de-merits. (CO-1)
 Q.25 Write five differences between OSI and TCP/IP reference models. (CO-6)
 Q.26 Calculate the requirement of links and ports at each node if someone wants to connect six nodes using mesh topology. (CO-6)
 Q.27 Briefly explain the function of PING, IPCONFIG AND NETSTAT. (CO-4)
 Q.28 Draw the Ipv4 header and explain in brief the function of each field. (CO-6)
 Q.29 Calculate the sub network address if the destination address is 19.30.80.5 and the subnet mask is 255.255.192.0? (CO-6)

- Q.30 List the various traditional Ethernet standards. Explain their features. (1+4) (CO-4)
 Q.31 Name the connecting/interconnecting devices based on layers of OSI models. Explain the working of any one of them. (2+3) (CO-6)
 Q.32 Define Cryptography. Explain symmetric Encryption with suitable diagram. (CO-5)
 Q.33 Explain the handshaking process between client and DHCP server. (CO-3)
 Q.34 Explain the function of Gateway in brief. (CO-4)
 Q.35 Write various applications of Bluetooth. (CO-2)

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x10=20)

- Q.36 Explain the architecture of WLAN (IEEE 802.11) Also write the advantages of WLAN over Wired LAN. (7+3) (CO-2)
 Q.37 Explain switching techniques in details with their merits and demerits. (CO-1)
 Q.38 Write note on followings:
 a) Fast Ethernet & Gigabit Ethernet (5) (CO-1)
 b) Workgroup & Domain networking (5) (CO-3)