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B. Tech. (Sem. - 7th / 8th)
COMPUTER NETWORKS
SUBJECT CODE : CS - 402
Paper ID : [A0328]

[Note : Please fill subject code and paper ID on OMR]

Time : 03 Hours

Maximum Marks : 60

Instruction to Candidates:

- 1) Section - A is Compulsory.
- 2) Attempt any Four questions from Section - B.
- 3) Attempt any Two questions from Section - C.

Section - A

(10 × 2 = 20)

- a) Differentiate between LAN, MAN, WAN.
- b) What is Extranet?
- c) Give any two advantages of packet switching over circuit switching.
- d) What is RARP?
- e) What is the purpose of MIME?
- f) What are the different types of sockets that can be created?
- g) What is the difference between bit rate and baud rate?
- h) Compare flow control and congestion control.
- i) What are the different classes of IP addresses?
- j) What is the meaning of CSMA?

Section - B

(4 × 5 = 20)

What are the different protocols in TCP / IP suite? Briefly describe their purposes.

Differentiate between the working of hubs, repeaters, switches, routers and bridges.

Q4) Explain the working of Token Ring based LAN.

Q5) Differentiate between SMTP, IMAP and POP3.

Q6) Compare and briefly describe UDP and TCP.

Section - C

(2 × 10 = 20)

Q7) What are the different types of routing mechanism used in Network Layer?
Explain the routing methods used in TCP / IP protocol suite.

Q8) (a) What is the difference between Low level and High level protocols?
Explain the working of NETBEUI in detail.

(b) What is Telnet?

Q9) (a) What is switching? Explain the difference between circuit, packet and message switching?

(b) Describe the purpose of HTTP and different web applications based on it.

