

M.C.A (Bridge course)

Month: Feb-25

(3 Hours)

N.B.

1) Question No. 1 is compulsory

2) Attempt any three from the remaining five questions \

Date: 6/2/25 (64)

Winter - 2024

[Total marks:80]

Second Half - 2024

- Q1. Write Short notes on the following: (any Four)
- a. Intranet (5)
 - b. Error control (5)
 - c. ICMP (5)
 - d. FTP (5)
 - e. IPV4 Address (5)
 - f. Telnet (5)
- Q2. a. What is the difference Between OSI and TCP/IP reference model (10)
- b. List some of the Quality of service parameters of transport layer (10)
- Q3. a. Classify the functions of Bridges & Switches in brief (10)
- b. What is the topology of the networks? Enumerate the pros and cons of the various topologies. (10)
- Q4. a. What is the channel capacity? What are the parameters affecting the channel capacity. Calculate the channel capacity for a telephone line which has a bandwidth of 3000Hz and SNR of 3162. (10)
- b. Discuss the stop and wait protocol in detail. (10)
- Q5. a. Define Network routing. Discuss any one network routing algorithm. (10)
- b. Explain about coaxial cable and fiber optics media for communication. (10)
- Q6. a. List the difference between circuit switching and Packet switching (10)
- b. Discuss SMTP protocol in detail. (10)
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