

Roll No.

Total No. of Questions : 07]

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BCA (Sem. - 4th)

COMPUTER NETWORKS

SUBJECT CODE : BC - 401

Paper ID : [B0215]

[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.

Section - A

Q1)

(10 × 2 = 20)

- a) List different error control mechanism?
- b) Differentiate between half duplex and full duplex data communication?
- c) Discuss the role of MAC layer in OSI reference model.
- d) Explain in brief the working of packet switching.
- e) What is primary cause of signal loss in satellite communication?
- f) What are major limitation of twisted-pair wire?
- g) What is a microwave transmission?
- h) What is the advantage of designing FDM?
- i) Differentiate between Baseband and Broadband?
- j) Differentiate between fiber optic and co-axial cable?

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(b) Compare features of router and Switches.

Q3) Compare and contrast OSI and TCP/IP reference model?

Q4) List and explain various communication switching techniques?

Q5) What are the different types of transmissions? Name two major categories of Transmission media?

Q6) (a) List various types of routing algorithms.

(b) Discuss the concept of IP addresses with help of suitable example.

Q7) (a) What is the concept of CSMA/CS.

(b) What do you understand by protocol? List various protocols used at different layers of OSI-ISO layer structure.

