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Roll No. .....

Total No. of Questions : 07] [Total No. of Pages : 02

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

(10 × 2 = 20)

Q1)

a) Define Data Communication and Computer network.

b) What are different modes of data communications?

c) What is multiplexing? Explain its types.

d) What are various IEEE standards?

e) What is internetworking? Explain its use.

f) Explain the difference between synchronous and asynchronous communication.

g) What are network protocols?

h) What is HDLC? How it different from SDLC?

i) What are various design issues in network layer?

j) What are leased lines? Explain with example.

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Section - B

(4 × 10 = 40)

Q2) What are various guided and unguided network media? Explain their advantages and disadvantages.

Q3) What is switching? Explain various switching techniques.

Q4) What is OSI model? Explain how it is different from TCP/IP model.

Q5) What is data link layer? Explain various services provided by data link layer to network layer.

Q6) What are various routing algorithms? Explain.

Q7) What are network topologies? Explain various network topologies with their advantages and disadvantages.

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