

Roll No. ....

Total No. of Questions : 07]

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**BCA (Sem. - 4<sup>th</sup>)**  
**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.

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