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Total No. of Printed Pages: [01]

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B.Sc. IT (Semester – 4th)
COMPUTER NETWORKS - I
SUBJECT CODE: BCSE0-F96
Paper ID: [OE2130425]

Time: 03 Hours

Maximum Marks: 60

Instruction for candidates:

1. Section A is Compulsory.
2. Attempt any FOUR questions from Section B.
3. Attempt any TWO questions from Section C.

Section – A

(2 marks each)

Q1. Attempt all questions:

- a. What do you mean by piggybacking?
- b. What is transport address?
- c. Describe the features of LAN.
- d. Discuss the term noise in context of computer networks.
- e. What is congestion control in computer networks?
- f. What do you mean FTP?
- g. Discuss the role of SMTP?
- h. Mention the importance of Router.
- i. What do you mean multiplexing?
- j. What is token passing?

Section – B

(5 marks each)

- Q2. Discuss the issues in network security in detailed.
- Q3. Discuss any two methods of framing?
- Q4. a) Mention the need of domain name system.
b) Discuss the various components of multimedia.
- Q5. a) Differentiate between circuit switching and packet switching?
b) List any four services of transport layer.
- Q6. Discuss the features of token bucket algorithm.

Section – C

(10 marks each)

- Q7. Describe the error detecting and correcting techniques employed in data communication.
- Q8. Explain the various media used for data transmission in computer networks.
- Q9. State and discuss OSI reference model along pictorial representation.