Roll No.

Total No. of Pages: 02

Total No. of Questions: 07

B.Sc.(IT) (2015 & Onwards) (Sem.-4) COMPUTER NETWORKS

Subject Code: BSIT-404 M.Code: 74086

Time: 3 Hrs. Max. Marks: 60

INSTRUCTIONS TO CANDIDATES:

- SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- 2. SECTION-B contains SIX questions carrying TEN marks each and students have to attempt any FOUR questions.

SECTION-A

Q1. Answer briefly:

- a. Compare digital and analog transmission.
- b. What is meant by De-multiplexing in networking?
- c. Differentiate MAN and WAN.
- d. Write the working of TDM.
- e. What is Frequency spectrum?
- f. Define PPP protocol.
- g. What is the purpose of MAC sub Layer?
- h. Write a short note on congestion control policies.
- i. Write the function of Blue Tooth.
- j. Define concept of Internetworking.

1 | M - 7 4 0 8 6 (S3) - 1 4 9 3

SECTION-B

- Q2. What are the different topologies in networks? Write their advantages and disadvantages.
- Q3. a. Discuss in brief Synchronous and Asynchronous modulation in Digital communication.
 - b. What are communication channels? Write advantages of optical fibre transmission.
- Q4. What do you mean by wireless transmission? Explain the use of Infrared and Bluetooth transmission.
- Q5. a. Compare OSI and TCP/IP model.
 - b. Compare and contrast message switching and packet switching.
- Q6. a. What are the responsibilities of the data link layer?
 - b. Explain the process of error detection and recovery in data communication.
- Q7. a. Name different Routing algorithms and write a note on any of one.
 - b. Explain the IEEE Token Bus and Ring standards used in computer networks.

NOTE: Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

2 | M - 7 4 0 8 6 (\$3) - 1 4 9 3