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 :

1. **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

1. Answer briefly :

a. What is full duplex communication?

b. List important features of MAN.

c. What are dial up lines?

d. Define Frequency Spectrum.

e. What is VHF?

f. Define Byte Stuffing.

g. List the important features of Bus Topology.

h. What is infrared transmission?

i. Define Hamming Distance.

j. What is optimality principle?

SECTION-B

2. Describe the construction, working principle and applications of coaxial cable and twisted pair cable.

3. Explain and compare the important features of circuit, message and packet switching.

4. Compare the important features of FDM, TDM and CDM with examples.

5. Explain and compare the important features of CSMA, CSMA/CD and CSMA/CA protocols.

6. What is congestion? Explain various congestion control policies.

7. Write a short notes on the following :

   a. Optical Fiber Transmission

   b. OSI model

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.