Roll No. ☐☐☐☐☐☐☐☐☐☐☐☐☐   Total No. of Pages : 02

Total No. of Questions : 09

M.Sc.(IT) (2015 Onwards)   (Sem.–2)
DATA COMMUNICATION AND NETWORKS
Subject Code : MSIT-201
M.Code : 72728

Time : 3 Hrs.   Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :
1. **SECTIONS-A, B, C & D contains TWO questions each carrying TEN marks each and students has to attempt any ONE question from each SECTION.**
2. **SECTION-E is COMPULSORY consisting of TEN questions carrying TWENTY marks in all.**
3. **Use of non-programmable Scientific Calculator is allowed.**

SECTION-A

Q1)   Explain various guided and unguided media with diagram.

Q2)   Compare and Contrast between OSI and TCP/IP reference models.

SECTION-B

Q3)   Explain Sliding Window Protocol in Data Link Layer.

Q4)   Differentiate between various IEEE standards and their uses.

SECTION-C

Q5)   Describe process of Flooding and Distance Vector Routing.

Q6)   Explain the concept of IP address subnet mask.

SECTION-D

Q7)   Explain in detail the process of Connection Establishment and Connection Release in Transport Layer.

Q8)   Describe the Client side and Server side architecture in Web Browser.

SECTION-E

Q9)   Answer Briefly :

a)   Differentiate between circuit switching and packet switching.

b)   What is hand off?

c)   Define the terms 'bit rate' and 'band rate'. Give the relation between them.

d)   Explain the terms multiplexing and de-multiplexing.

e)   Define CSMA/CD protocol.

f)   E-Mail

g)   RARP

h)   LAN vs MAN

i)   ALOHA

j)   Coaxial Cable

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.