

Roll No.

Total No. of Pages : 02

Total No. of Questions : 09

M.Sc.(IT) (2019 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

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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.