|--|

Total No. of Pages : 02

Total No. of Questions : 09

M.Sc.(IT) (2016 to 2018) (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 have to attempt any ONE question from each SECTION.
- 2. SECTION-E is COMPULSORY consisting of TEN questions carrying TWENTY marks in all.

SECTION-A

- 1. How is the OSI reference model different from the TCP/IP model? Also write the similarities between the two.
- 2. Which technique used for efficient utilization of available bandwidth? Also write its different types.

SECTION-B

- 3. Describe the IEEE 802.3 standard in detail. Write the frame formats and implementation details.
- 4. What are the services provided by Data Link Layer to its upper layers? Explain briefly.

SECTION-C

- 5. What is the role of Internet Protocol in the network layer? Describe the details of the protocol.
- 6. Write a note on the various Routing algorithms available in the network layer.

SECTION-D

- 7. Describe in detail the difference between UDP and TCP.
- 8. What is World Wide Web? How does Domain Name System (DNS) help in accessing the www?

1 M-72728

(S6)-497

SECTION-E

9. Write short notes on the following:

- a) HTTPS
- b) Various Transmission Impairments
- c) Use of Netstat command
- d) Working of Wireless Networks
- e) Relationship between Layers, Protocols and Interfaces
- f) Working of FTP
- g) Usage of ARP
- h) Difference between Radiowaves and Microwaves
- i) Role of Port number in TCP
- j) Best Error Prevention Technique

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.