Total No. of Questions : 8]   [Total No. of Printed Pages : 2

Roll No ....

MEDC-105

M.E./M.Tech. I Semester

Examination, November 2018

Data Communication and Computer Network

Time : Three Hours

Maximum Marks : 70

Note: i) Attempt any five questions.

ii) All questions carry equal marks.

1. a) Differentiate between Synchronous and Asynchronous mode of Transmission.   7

   b) What do you understand by Switching? Briefly explain the different types of switching techniques.   7

2. a) Describe briefly RS-232C standards and compare with X.21 standards.   7

   b) Discuss the sliding window protocol and its merits.   7

3. a) Discuss the ARQ techniques for error control.   7

   b) Give the difference between working of point-to-point and multi-point links.   7

4. a) What is Datagram?   4

   b) State and explain the Dijkstera's algorithm. How does it differ from Bellman Ford algorithm?   10

PTO

5. a) Discuss about Deadlock condition in Communication Network and its avoidance procedure.   7

   b) Discuss the contention and polling based medium access control schemes.   7

6. a) Write and explain various IEEE standards for LAN.   7

   b) Explain the principle working of FDDI.   7

7. a) Explain the function of ATM layers. How is transmission different from Frame relay.   7

   b) Discuss about TCP/IP Protocol.   7

8. Write a short note on any two: 14

   a) CRC code

   b) HDLC

   c) USB LANs

   d) Congestion control technique

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