

Day & Date	Semester	Subject Name	Time	Code	Marks
Tuesday 27/03/2018	V (Repeater)	Data Communication and Networking	02.30 PM To 05.00 PM	5101	75

Instructions:

- I) Question No. 1 is compulsory
- II) Attempt any 4 Questions from Question No. 2 to 8
- III) All questions carry equal marks
- IV) Draw neat and proper Diagram / Figure if necessary

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- Q1. Write short notes on (Any 3) [15m]
- a. Fiber Optic Cable with diagram
 - b. TDM and FDM
 - c. Connection – Oriented and Connectionless Services
 - d. ARPANET
- Q2. Explain OSI Reference Model in detail. [15m]
- Q3. Explain below given Routing Algorithms (any 2) [15m]
- a. Distance Vector Routing
 - b. Shortest Path Routing
 - c. Multicast Routing
- Q4.
- a. What is CSMA? Describe Persistent and non persistent CSMA. [7m]
 - b. Explain Analog and Digital Signals. [8m]
- Q5.
- a. What is congestion Control? Explain Open Loop and Close Loop of Congestion Control [8m]
 - b. Explain the types of Transmission Impairments. [7m]
- Q6.
- a. Explain Packet Switching Network [8m]
 - b. Explain Circuit Switching Network [7m]
- Q7. Explain uses of Computer Networks in below fields [15m]
- a. Business Applications
 - b. Home Applications
 - c. Mobile Users
- Q8. What is Framing? Explain its methods [15m]

All the best!!