

Code No: F3302

R09**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD****MCA III Semester Examinations, August - 2017****COMPUTER NETWORKS****Time: 3hrs****Max.Marks:60**

Answer any five questions
All questions carry equal marks

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- 1.a) What is Analog and Digital Signal? Explain each with suitable example.
- b) What are the responsibilities of ISO/OSI reference model layers? Explain in details.[6+6]
- 2.a) Write briefly about digital transmission , multiplexing and Transmission media (Guided and Un Guided)
- b) List the differences among circuit switched networks, Datagram networks, and virtual circuit networks. [6+6]
- 3.a) What are design issues of Data Link layer? Explain with suitable example
- b) Discuss the HDLC and Point to Point Protocol (PPP). [6+6]
4. Write Short notes
 - a) Fast Ethernet.
 - b) Giga-Bit Ethernet
 - c) Wireless LANs. [12]
- 5.a) Write briefly about the backbone networks ,Virtual Networks and wireless WANs.
- b) Discuss the advantages of SONET and its frame format. [6+6]
6. Write briefly about the multicast routing protocols. Discuss the internetworking and tunneling used in network layer. [12]
- 7.a) Discuss the TCP and UDP header format with neat diagram.
- b) How congestion control and QoS will be achieved in transport layer? Explain. [6+6]
8. What are FQDN and PQDN? Explain DNS in Internet. [12]

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