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Roll No. 0111ECJOMT03

MEDC-105

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M. Tech. (First Semester)

EXAMINATION, Dec., 2010

DATA COMMUNICATION & COMPUTER NETWORK

(MEDC-105)

Time : Three Hours

Maximum Marks : 100

Minimum Pass Marks : 40

Note : Attempt any five questions. All questions carry equal marks.

1. (a) Discuss and compare different switching techniques.
(b) Explain vertical and longitudinal redundancy check.
2. (a) Describe briefly RS-232 C standards and compare with X-21 standards.
(b) Explain briefly about one bit sliding window protocol.
3. (a) Explain the protocol using Go Back n. What is pipelining ?
(b) Explain high level data link control. Discuss the problems associated with it.
4. (a) What are virtual circuits and datagram ? Explain IP datagram.
(b) Explain Dijkstra and Bellman Ford least cost algorithm.

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5. (a) Explain briefly about the congestion control technique.
(b) What is deadlock and how it can be avoided ?
6. (a) Discuss the following :
(i) Polling
(ii) Token parsing
(b) Discuss the IEEE for LAN
7. (a) Explain the packet switching technologies used in WAN.
(b) Give a brief layerwise description of TCP/IP protocol.
8. Write short notes on any two of the following :
(a) Null model
(b) UBS LAN
(c) FDDI