Roll No ....

MEDC-105

M.E./M.Tech. I Semester

Examination, December 2013

Data Communication and Computer Network

Time : Three Hours

Maximum Marks : 70

Note : 1. Attempt any five questions.
2. All questions carry equal marks.

1. a) Discuss the principle working of packet switching transmission system.

   b) Explain the generation of CRC codes.

2. a) Discuss about the vertical and longitudinal redundancy check.

   b) Compare RS-232C and X.21 standards.

3. a) Explain the principle working of multipoint links.

   b) Discuss HDLC as a bit oriented link control protocol.

4. a) Discuss the sliding window protocol and its merits.

   b) Give performance analysis of any one of the ARQ technique for error control.

5. a) Give a brief review of the various routing protocols.

   b) Discuss about the congestion control technique in communication networks.

6. a) Discuss about the contention and polling based medium access control schemes.

   b) Write a brief note on UBS LANs.

7. a) Explain frame relay WAN packet switching technologies.

   b) Discuss TCP/IP protocol.

8. Write short notes on any two of the following :

   a) Null model

   b) Dijkstra and Bellman algorithms

   c) ATM.

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