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Roll No .....

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**MEDC - 105**

**M.E./M.Tech., I Semester**

Examination, June 2014

**Data Communication And Computer Network**

*Time : Three Hours*

*Maximum Marks : 70*

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

1. a) Explain the transmission using packet switching techniques.  
b) Explain vertical and longitudinal redundancy check code.
2. a) Explain the X.21 standards used in data communication.  
b) Discuss the principle and generation of CRC codes. Also explain their error detecting capabilities.
3. a) Explain about the sliding window protocol.  
b) Explain HDLC as a bit oriented link control protocol.
4. a) Discuss the flow in point to point and multipoint links.  
b) Discuss different ARQ technique for error control.
5. a) Explain Dijkstra and Bellman ford least cost algorithm.  
b) Discuss the different congestion control technique.

6. a) Explain contention, polling and token passing in respect of LAN.  
b) Explain the principle working of FDDI.
7. a) Give a brief overview of WAN packet switching technologies.  
b) Discuss about TCP IP protocols.
8. Write short notes on any two of the following: -
  - i) RS-232C
  - ii) Null model
  - iii) UBS LAN'S

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