

Roll No

MEDC - 105

M.E./M.Tech. I Semester

Examination, June 2016

Data Communication and Computer Network

Time : Three Hours

Maximum Marks : 70

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

1. a) Differentiate between packet, circuit and message switching in brief.
b) Explain the difference between repeater, bridge, router and gateway.
2. a) What do you mean by MODEM? Explain null modem in brief.
b) How error can be detected and corrected in any network? Describe with some suitable examples.
3. a) Explain different means of flow control.
b) What are the various ARQ retransmission strategies? Discuss in detail.
4. a) Explain go-back-n and sliding window flow technique.
b) List out various features of HDLC. Clearly explain various response modes.

5. a) What do you mean by virtual circuit and datagram? Explain in detail.
b) What is Routing? Explain any one routing algorithm briefly.
6. a) Explain deadlock and its avoidance techniques.
b) Describe any one congestion control technique with suitable diagram and description.
7. a) Discuss various network topologies in detail.
b) What do you mean by FDDI? Explain in detail.
8. a) Draw and explain TCP header format.
b) Describe ATM and frame relay with suitable diagram and description.
