Code: 9D06104

M.Tech I Semester Regular & Supplementary Examinations January/February 2017
ADVANCED DATA COMMUNICATIONS
(Digital Systems and Computer Electronics)

Time: 3 hours   Max. Marks: 60

Answer any FIVE questions
All questions carry equal marks
*****

1 (a) Give the comparison of ASK, FSK and PSK.
   (b) Discuss about DPSK generation, recovery and its bandwidth consideration in detail.

2   Discuss the consequences if a connection fails for the following type of network:
   (a) Five devices arranged in mesh topology.
   (b) Five devices arranged in star topology.
   (c) Five devices arranged in tree topology.

3 (a) Describe about the features, operations and benefits of LAN and WAN.
   (b) Explain about DTE – DCE interface.

4   The code 11110101101 was received. Using hamming encoding algorithm, what is the original code sent. How to correct the burst error?

5   Illustrate with example and explain the operation of stop and wait protocol.

6   What are the types of switches used in circuit switching? Explain each type in detail.

7   Illustrate with diagram and write down the procedure for carriers sense multiple access collision detection and collision avoidance.

8   Name three channelization protocols. Give comparison of the same.

*****