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Roll No. _____

SIXTH SEMESTER

B.Tech.

MID SEMESTER EXAMINATION

Mar-2019

MC308 COMPUTER NETWORKS

Time: 1:30 Hours

Max. Marks: 25

Note: Answer ALL questions. Assume suitable missing data, if any.

1. Answer all the following questions: [2x5 marks]
 - [a] What is ISDN? Explain the various types of ISDN channels.
 - [b] Differentiate between LAN and WAN.
 - [c] Generate the CRC code for the dataword 110010101, using the generator polynomial $x^4 + x^2 + 1$ as the divisor.
 - [d] Identify the Class and the Network address for the IP addresses, 195.225.10.47 and 129.11.31.254, using its default mask.
 - [e] How is the performance enhanced in CSMA/CD protocol in comparison to CSMA protocol?

 2.
 - [a] Explain the types of Switching techniques in a network. [3 marks]
 - [b] Explain the various protocols and networks present in TCP/IP Reference model. [4 marks]

 3.
 - [a] What are the various types of Sliding window protocols? Also explain with the help of a diagram, under what circumstances retransmission takes place in each protocol. [4 marks]
- P.T.O.**

[b] Suppose a network consists of 8 subnetworks. Identify the Subnet address for the following IP addresses: [4 marks]

- (i) 182.163.105.21
- (ii) 182.163.76.95
- (iii) 182.163.170.250
- (iv) 182.163.198.200

END