Code: 14E05406

MBA IV Semester Supplementary Examinations May 2019
DATA COMMUNICATION & NETWORK ANALYSIS
(For students admitted in 2014 (LC), 2015 & 2016 only)

Time: 3 hours   Max. Marks: 60

All questions carry equal marks
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SECTION – A
(Answer the following: 05 X 10 = 50 Marks)

1   Define multiplexing. Describe briefly about the frequency division multiplexing.

OR

2   Draw and explain the functionality of each layer in OSI reference model.

3   Describe the design issues of data link layer.

OR

4   Explain in detail about the unrestricted stop and wait protocol.

5   Describe the procedure for connection establishment in transport layer.

OR

6   Explain briefly about the addressing in transport layer.

7   Explain various data encryption methods available.

OR

8   What is digital signature? Discuss the need of digital signature in network security.

9   Explain various protocols used in application layer in detail.

OR

10   Give a brief note on ISDN services and networking devices.

SECTION – B
(Compulsory Question, 01 X 10 = 10 Marks)

11   **Case study:**
         Which of the following CRC generators guarantee the detection of a single bit error?
         Questions:
(a) $x^3 + x + 1$.
(b) 1.
(c) $x^2 + 1$.

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