

Code: 14E05406

MBA IV Semester Regular Examinations June/July 2016

DATA COMMUNICATION & NETWORK ANALYSIS

(For students admitted in 2014 only)

Time: 3 hours

Max. Marks: 60

All questions carry equal marks

SECTION – A

Answer the following: (05 X 10 = 50 Marks)

- 1 (a) What is Delay analysis? Explain briefly.
(b) Compare Packet Switching versus Circuit Switching.

OR

- 2 What is Multiplexing? Explain various technologies of multiplexing in detail.

- 3 (a) Describe briefly, how the sliding window flow control mechanism works.
(b) Explain how the routing is done in Virtual Circuits with a neat diagram.

OR

- 4 (a) What is the drawback in Go-Back-N Sliding window protocol? How it can be solved?
(b) Discuss in detail about the Hierarchical Routing Algorithm.

- 5 (a) What are the primitives for simple transport service? Explain.
(b) What is synchronization? Explain the need of synchronization.

OR

- 6 (a) Explain briefly about the addressing Transport Layer.
(b) Give a brief note on Session Layer.

- 7 (a) Explain briefly the process of Key Distribution in Networks.
(b) Give a brief note on Digital Signatures.

OR

- 8 What is the need of Message Encryption? Explain different data encryption methods in detail.

- 9 (a) Explain in detail about the History of ISDN.
(b) Explain briefly about the Networking Devices.

OR

- 10 Write short notes on the following:
(a) DNS.
(b) TCP/IP.

SECTION – B

(Compulsory Question)

01 X 10 = 10 Marks

- 11 **Case study:**

Considering the connection oriented services and connection less services describe the following:

- (a) Give two example computer applications for which connection-oriented service is appropriate and justify.
(b) Give two example computer applications for which connection-less service is appropriate and justify.