

Code: 14E05406

MBA IV Semester Supplementary Examinations November/December 2017

**DATA COMMUNICATION & NETWORK ANALYSIS**

(For students admitted in 2014 &amp; 2015 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 (a) Give brief description about delay analysis.  
(b) Define multiplexing. Describe briefly about the frequency division multiplexing.

**OR**

- 2 (a) What are the different types of topologies present in networks? Explain.  
(b) Explain in detail about the packet switching.

- 3 Discuss in detail about the go back N and selective repeat protocols.

**OR**

- 4 (a) What are the main functions of the data link layer?  
(b) What is routing? Explain the hierarchical routing in detail.

- 5 (a) What is addressing? Explain it in detail.  
(b) Discuss in detail about the functions of session layer.

**OR**

- 6 Describe briefly about the connection establishment and release of connection in transport layer.

- 7 (a) What is a digital signature? Explain it in detail.  
(b) Give a brief note on file transfer protocol.

**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) Describe briefly about the internetworking devices in detail.

**OR**

- 10 Write a short note on following:  
(a) TCP/IP.  
(b) Networking devices.

**SECTION – B**

(Compulsory Question)

01 X 10 = 10 Marks

**11 Case study:**

Consider the connection oriented services and connection less services to describe the following:

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

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