

**333452(33)**

**BE (4<sup>th</sup> Semester)  
Examination, April - May, 2017**

**[ New Scheme ]**

**Telecom Switching and  
Computer Networks**

**Time Allowed : 3 hours**

**Maximum Marks : 80**

**Minimum Pass Marks : 28**

**Note : (i) All questions are compulsory. Part (a) of each unit is compulsory. Attempt any two parts from (b), (c) and (d) of each unit.**

**(ii) The figures in the right-hand margin indicate marks.**

**UNIT - I**

- 1. (a) What are the topologies generally used in telephone network? [2]
- (b) What is subscriber's local loop? Draw and explain the basic architecture of telephone network. [7]

- (c) Explain DSL technology. What are the services provided by the telephone companies using DSL? Explain working of ADSL. [7]
- (d) Explain the concept of multiplexing and framing in telephony. [7]

**UNIT - II**

- 2. (a) Define protocols and standards. [2]
- (b) What is protocol suit? Explain TCP/IP model with its layers. [7]
- (c) What is MODEM? Explain NULL MODEM. [7]
- (d) What are the basic differences between connectionless and connection oriented services? http://www.csvtuonline.com [7]

**UNIT - III**

- 3. (a) If a packet is being delivered on a local n/w, then what will be the role of network layer? [2]
- (b) What is the function of transport layer? Give the differences between TCP and UDP protocol. [7]
- (c) What are the different access mechanisms used in different IEEE LAN standards? Explain MAC frame of ETHERNET. [7]
- (d) What are the different networking and inter-networking devices? At which layer these devices are being operated and which protocol is being used at this layer? [7]

**UNIT - IV**

4. (a) Define traffic engineering. [2]  
(b) What is X.25? Explain its architecture.  
What kinds of frames are used in X.25? [7]  
(c) What is frame relay? Give the differences  
between frame relay and X.25 Networks. [7]  
(d) Discuss the architecture and applications of  
ATM network. [7]

**UNIT - V**

5. (a) Which layer is responsible for security? [2]  
(b) What is cryptography? Give applications of  
cryptography. [7]  
(c) Explain RSA system of public key  
cryptography. [7]  
(d) What do you understand by digital signature?  
Discuss its application in authentication of  
documents. [7]

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