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B. E. (Fifth Semester) Examination, 2020
(IT Engg. Branch)

**TELECOM SWITCHING
& COMPUTER NETWORKS**

Time Allowed : Three hours

Maximum Marks : 80

Minimum Pass Marks : 28

Note : Solve any two questions from each unit. All the questions carry equal marks.

Unit-I

1. (a) What is Multiplexing? Explain its Techniques in detail. 8
- (b) Explain circuit switching and packet switching with an example. 8

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- (c) What is Topology? Explain the types of Topology in short. 8

Unit-II

2. (a) How many types of errors are there? Explain any one method to detect and correct it. 8
- (b) What is OSI? Explain OSI model with functions of all layers. 8
- (c) What is HDLC? Explain frame format of HDLC. 8

Unit-III

3. (a) Compare Pure ALOHA with slotted ALOHA with suitable diagram. 8
- (b) What is Ethernet? Explain IEEE 802.3 along with frame format. 8
- (c) What is SMTP? Explain in detail. 8

Unit-IV

4. (a) What is ATM? Draw explain all layers of ATM. 8
- (b) What is ISDN? Explain along with its uses. 8

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- (c) What is X.25? Explain in detail. 8

Unit-V

5. (a) What is Cryptography? Explain Public Key Cryptography? 8
- (b) What is DES? Explain along with neat diagram. 8
- (c) Explain RSA system for Public Key Cryptography. 8