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M. Tech. 1st Semester (ECE) CBCS Scheme

Examination, December-2019

DATA COMMUNICATION NETWORK

Paper-MTECE21C5

Time allowed : 3 hours]

[Maximum marks : 100

Before ensuring the question, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard will be entertained after examination.

Note : Attempt five questions. Question No. 1 is compulsory. Select one question from each unit. All questions carry equal marks.

1. (a) What is Transmission Impairments ?
- (b) Differentiate between Bit oriented and character oriented protocol ?
- (c) What is FDD ? Explain
- (d) What is DQDB ?
- (e) What is inter networking ?

Unit-I

2. What do you mean by Transmission Media ? Explain various Transmission Media.
3. Differentiate the following :
 - (i) Analog and Digital Transmission

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(2)

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- (ii) Synchronous and asynchronous Communication.

Unit-II

4. What is Multiplexing ? Explain different type of Multiplexing.
5. Explain :
 - (i) Flow Control
 - (ii) Link Control
 - (iii) Error Control

Unit-III

6. What is switching ? What are different types of switching mechanisms ? Explain.
7. What is topology ? Explain different type of topologies with their advantages and disadvantages.

Unit-IV

8. What is TCP/IP Model ? Explain function and protocols of each layer.
9. What is ISDN ? Discuss ISDN Architecture.

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