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Code : 15CS34T

III Semester Diploma Examination, Oct./Nov.-2019

COMPUTER NETWORKS

Time : 3 Hours]   **[Max. Marks : 100**

Instructions :   (i)   Answer any **six** questions from Part – **A**, each question carries **5** marks.

             (ii)   Answer any **seven** full questions from Part – **B**, each question carries **10** marks.

PART – A

1. Define the following terms :   5
   - (a) Data communication
   - (b) Bandwidth
   - (c) Through put
   - (d) Jitter
   - (e) Bit rate

2. Explain TCP/IP reference model.   5

3. Illustrate with examples different types of errors.   5

4. Explain briefly Rolling.   5

5. Explain single mode transmission of optical fiber.   5

6. Explain the role of NIC.   5

7. Discuss different sub netting considerations.   5

8. Describe the components of VSAT network.   5

9. Describe the content of Routing table.   5

PART – B

10.   Explain briefly the components of data communication with diagram.   **10**

11.   List different network topologies. Explain with a diagram Ring and star Topologies. **10**

12.   Explain the design of CRC encoder and decoder, with an example.   **10**

13.   Explain with a diagram repeaters and hubs.   **10**

14.   Explain FDDI Lower Layer Protocol.   **10**

15.   (a)   Explain ARC .Net data frame format.   **5**

      (b)   Explain HTTP Higher Layer Protocols.   **5**

16.   Explain the features of IP address of classes.   **10**

17.   Explain briefly transparent bridge.   **10**

18.   Describe different type of Gateways.   **10**

19.   Illustrate the working of DNS with a diagram.   **10**

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