Fifth Semester B.C.A Degree Examination
April/May - 2019
(New Scheme)
(BCE 420) DATA COMMUNICATION

Time : 3 Hours   Max. Marks : 80

PART - I

I.   Answer ALL of the following questions: **5x1=5**

1.   What is Attenuation?

2.   List the Guided Transmission Media.

3.   Expand HDLC.

4.   Define Lost frames.

5.   What is Switching

PART - II

II.   Answer any FIVE full questions: **5x15=75**

6.   a) Explain Transmission Terminology.   **5**

      b) Write any five differences between analog and digital data.   **5**

      c) Discuss Transmission impairments.   **5**

7.   a) Explain Twisted Pair & optical fiber Media.   **5**

      b) Explain any one unguided Transmission Media.   **5**

      c) Explain Co-axial cable with a neat diagram.   **5**

8.   a) Define the terms.

      i) Data rate ii) Signal rate iii) Data element iv) Signal element v) Flow control   **5**

      b) Discuss Bipolar encoding technique   **5**

      c) Explain PCM.0   **5**

9. a) Discuss Frequency hoping spread spectrum.   5

    b) Explain ASK and FSK.   5

    c) Explain Asynchronous transmission.   5

10. a) Explain stop and wait sliding window Flow control.   5

    b) With an example explain CRC.   5

    c) Discuss any Two collision free protocol.   5

11. a) What is Multiplexing and explain FDM.   5

    b) Compare circuit switching and Packet Switching.   5

    c) Write a role on TDM.   5

12. a) Discuss datagram approach of switching technique.   5

    b) Write packet Switching Principles.   5

    c) Write a note on Digital carrier system.   5

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