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Total No. of Questions: 09

B.Tech.(EE) (2011 Onwards E-II)
B.Tech.(Electrical & Electronics) (2011 & 2012 Batch E-II)

(Sem.-7,8)

NETWORKS AND DATA COMMUNICATION

Subject Code: BTEE-804E Paper ID: [A3039]

Time: 3 Hrs. Max. Marks: 60

INSTRUCTION TO CANDIDATES:

- SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- 2. SECTION-B contains FIVE questions carrying FIVE marks each and students has to attempt any FOUR questions.
- 3. SECTION-C contains THREE questions carrying TEN marks each and students has to attempt any TWO questions.

SECTION-A

Q1. Answer briefly:

- a) What is switching? Discuss its types.
- b) Differentiate between infrared and light wave.
- c) Give limitations of parity checking.
- d) What is multiplexing? Name its types.
- e) Compare EIA-449 & EIA-530 structures.
- f) What are the types of errors?
- g) What is the meaning of open system in the OSI model?
- h) What is the need of encoding?
- i) What are virtual circuits?
- j) Explain the concept of DSL.

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SECTION-B

- Q2. Define switching. Compare circuit switching, message switching & packet switching.
- Q3. Explain the difference between Analog and Digital Communication by giving suitable examples showing in which conditions Analog is better and in which condition Digital is better.
- Q4. Explain the longitudinal and vertical redundancy checking techniques in detail with illustrative examples.
- Q5. What is spread spectrum? What are its advantages? Explain briefly the various spread spectrum schemes.
- Q6. Explain the X.21 communication standard in detail.

SECTION-C

- Q7. What do you mean by transmission medium? Explain in detail the construction, characteristics and applications of various guided media.
- Q8. Explain in detail TCP/IP reference model. Write its advantages and disadvantages also.
- Q9. Explain in detail various error detection and correction techniques.

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