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BT-4 / M–19

DIGITAL DATA COMMOUNICATION

Paper–CSE-206 N

Time allowed : 3 hours] *[Maximum marks : 75*

Note : *Students will be required to attempt five questions in all, selecting one question from each unit. All questions carry equal marks.*

Unit–I

1. Briefly explain the following :

(a) Spectrum of AM wave

(b) Vestigial side band modulation. 7+8=15

2. Write the spectrum of FM. Explain modulation index and bandwidth of FM signal. Compare NBFM *Vs.* WBFM. 15

Unit–II

3. (a) What is meant by digital to digital conversion ? Elaborate NRZ and RZ as types of polar encoding.

(b) What are the various encoding scheme available analog encoding ? Explain each of them in brief. 7+8=15

4. (a) How is delta modulation performed ? Explain.

(b) Write the need of modulation. Explain amplitude modulation. 7+8=15

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Unit–III

5. Explain parity code as error detection and hamming code as error detecting and correcting code. Determine the number of Hamming bits required for a 12-bit data string of 101100010010 and generate the hamming codeword. 15

6. (a) Why RS-449 interface is used ? Explain electrical specification characteristics of RS-422A interface.

(b) Draw a comparison among different transmission media. 7+8=15

Unit–IV

7. What is multiplexing ? Discuss bit stuffing and inverse multiplexing. Draw a comparison between synchronous and asynchronous TDM. 15

8. What is CDMA ? How it is used for transmission and reception of data via satellite ? Explain the principle of CDMA with suitable diagram. Differentiate CDMA with OFDMA. 15

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