

12. a)(i) Define FM with waveforms and derive expression for FM signal. (8)

(ii) Explain FM Demodulator. (8)

(OR)

b) Explain AM with block diagram of Transmitter and Receiver (16)

13. a) What is ISI. Explain ISI with eye pattern. Also how cosine filter can reduce ISI (16)

(OR)

b)(i) Draw the Block diagram of BFSK transmitter and receiver and explain. (10)

(ii) Define BPSK and QPSK. Compare BPSK and QPSK with respect to bandwidth and transmission power. (6)

14. a) Explain the different multiple access methods TDMA, FDMA and CDMA (16)

(OR)

b) Describe Direct Sequence-Spread spectrum modulation for Band pass Communication. (16)

15. a) Perform **Shannon -Fano** coding and **Huffman** coding on the source given. Find the codes of all messages and coding efficiency for both the coding methods. (16)

m0	m1	m2	m3	m4	m5	m6	m7
0.064	0.096	0.096	0.144	0.096	0.144	0.144	0.216

(OR)

b) (i) Define channel capacity theorem (4)

(ii) Determine all code words of the code (6,3). Using the co-efficient Matrix (12)

$$P = \begin{bmatrix} 0 & 1 & 1 \\ 1 & 0 & 1 \\ 1 & 1 & 0 \end{bmatrix}$$

Analog Communication Diploma Question Papers

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