



ii) Write short notes on DPSK. (4)

23. a) Describe the principle and operation of delta modulation. Draw the appropriate waveforms. Explain the distortions incurred.

(OR)

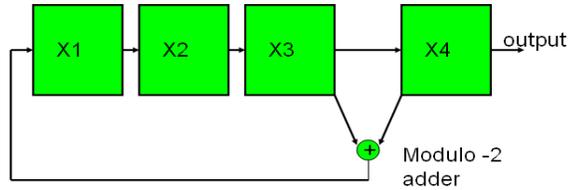
b) Explain the operation of PCM encoder & decoder in detail with neat block diagrams and derive the signal to quantization noise ratio expression.

24. a) Explain in detail about error detection & error correction techniques for linear block codes.

(OR)

b) What are the functions of a Modem? Explain the principle of asynchronous & synchronous modems.

25. a) i) The following figure shows a four stage feedback shift register. The initial state of the register is 1000. Find the output sequence of the shift register. (4)



ii) Explain the principle of DS-SS / BPSK transmitter & receiver with suitable diagrams. (10)

(OR)

b) i) Explain the principle of FH-SS / MFSK transmitter & receiver with suitable diagrams. (10)

ii) Write short notes on TDMA in wireless communication system. (4)

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