

- Q.5 The factors that cause quantizing error in delta modulation are:
- Slope overload distortion
 - Granular noise
 - White noise
 - Both A and B
- Q.6 _____ adds some redundant bits (Error Correcting Bits) to the transmitted data:
- Channel encoder
 - Source encoder
 - Sampler
 - None
- Q.7 The digital modulation technique in which the step size is varied according to the variation in the slope of the input is called _____.
- Delta Modulation
 - PCM
 - Adaptive Delta Modulation
 - TDM
- Q.8 The data rate of QPSK is _____ of BPSK.
- Thrice
 - Four times
 - Twice
 - None
- Q.9 The first step of PCM is _____
- Quantization
 - Sampling
 - Modulation
 - None
- Q.10 Minimum Sampling rate is called _____
- Baud rate
 - Nyquist rate
 - Bit rate
 - None

SECTION-B

Note: Objective type questions. All questions are compulsory. (10x1=10)

- Q.11 What is the unit of information capacity.
- Q.12 DPSK stands for _____
- Q.13 What is the full form of ASCII?
- Q.14 Draw ASK waveform.
- Q.15 NRZ is unipolar coding. (True/False)
- Q.16 What is bit rate.
- Q.17 Define PAM.
- Q.18 DPCM _____
- Q.19 CDMA.
- Q.20 What is source coding.

SECTION-C

Note: Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

- Q.21 Explain Shannon Hartley theorem.
- Q.22 Explain Sampling theorem?
- Q.23 What is Manchester coding? Explain in brief.
- Q.24 What is Quantization error and companding?
- Q.25 What is delta modulation? Explain the working.
- Q.26 Explain the generation of FSK.
- Q.27 What is inter symbol interference in digital modulation?