

- c) Band pass
- d) Band stop
- (x) Companding is choose to
 - a) Increase the information transmission rate
 - b) Use only one carrier frequency to handle different signals
 - c) To use different frequency bands for different signals
 - d) To protect all small signals in PCM from quantizing noise
- (xi) Choose, which has greater bandwidth?
 - a) TDM
 - b) FDM
 - c) TDM & FDM
 - d) None of the mentioned
- (xii) Select, which maintains better fidelity?
 - a) Analog communication
 - b) Digital communication
 - c) Analog & Digital communication
 - d) None of the mentioned
- (xiii) The SNR value can be increased by applying _____ the number of levels.
 - a) Increasing
 - b) Decreasing
 - c) Does not depend on
 - d) None of the mentioned
- (xiv) A cyclic code can be generated applying
 - a) Generator polynomial
 - b) Generator matrix
 - c) Generator polynomial & matrix
 - d) None of the mentioned
- (xv) Linear codes are manage for
 - a) Forward error correction
 - b) Backward error correction
 - c) Forward error detection
 - d) Backward error detection

Group-B

(Short Answer Type Questions)

3 x 5=15

- 2. Compare and contrast uniform and non-uniform quantization. (3)
- 3. Explain Sampling theorem. (3)
- 4. Write the advantage of delta modulation over pulse modulation schemes? (3)
- 5. Write a short note on delta modulation. (3)
- 6. Write comparative study of DPCM, DM and ADM signals. (3)

OR

Write the difference between block codes and convolutional codes? (3)

Group-C

(Long Answer Type Questions)

5 x 6=30

- 7. Estimate the difference between TDM & FDM. (5)
- 8. Explain QPSK with waveforms. (5)
- 9. Define the following terms : (i) Code word (ii) Block length (iii) Code rate (5)
- 10. Write a short note on PCM. (5)
- 11. Represent 100111010 using following digital data format (1) Polar RZ (2) Bipolar NRZ (3) AMI NRZ (5)
- 12. Explain repetitive generator. (5)

OR

Explain the detection of PCM system (5)
