- Q1 Define bandwidth, data rate and throughput. Compare LAN and WAN on these parameters.
- Q2 What is the role of flow control in data link layer? Compare it with transportation layer.
- Q3 What is the role of error control in the data link layer? Compare it with transportation layer.
- Q4 For the bit stream 11010100, draw the waveforms for binary encoding, RZ unipolar, RZ bipolar, NRZ-L, NRZI, NRZM, Manchester, and Differential Manchester encoding.
- Q5 In a CRC error-detecting scheme, choose $P(x) = x^4 + x^2 + 1$. Encode the bits 11011010111.
- Q6 Examine Go-back-N and Selective Repeat protocols for sequence number k. Examine the protocols for the different scenarios of window sizes. Draw diagrams to explain your answer.
- Q7 Examine Go-back-N and Selective Repeat protocols from the perspective of acknowledgements.