

Q.2 a. Explain digital communication system with the help of block diagram.

Answer: Page 4 to 5 of Text Book 1

Q.2 b. State & prove source coding theorem with explanation.

Ans : Page 20 to 21 of Text Book 1

Q.3 a. Explain sample and hold circuit for signal recovery.

Ans: Page 160 to 161 of Text Book 1

Q3.b. Define Time division multiplexing with a neat block diagram.

Ans : Page 162 to 164 of Text Book 1

Q.4.a. Write a note on delta modulation with the help of block diagrams.

Ans : Page 203 to 205 of Text Book 1

Q4 b. Explain the process of encoding in pulse code modulation.

Ans: Page 177 to 178 of Text Book 1

Q.5 a. What do you mean by the term eye pattern in digital communication.

Ans. Page 261 to 262 of Text Book 1

Q5 b. Explain Adaptive equalization for data transmission.

Ans. Page 263 to 266 of text Book 1

Q.6.a Explain coherent binary PSK with diagrams

Ans. Page 275 to 277 of Text Book 1

Q6.b. What is differential phase-shift keying

Ans. Page 307 to 310 of Text Book

Q7. a. Explain Gram-Schmidt Orthogonalization Procedure

Ans. Page 60 to 63 of Text Book 1

Q7. b. Write a note on Correlation receiver with neat diagrams.

Ans. Page 84 to 86 of Text Book 1

Q8. a. With help of block diagram explain slow frequency hopping.

Ans. Page 462 to 466 of Text Book 1

b. What is DSSS? Explain the transmitter and receiver of DSSS

Ans. Page 468 to 469 of text Book 1

Q.9 Write short notes on :

(i) Digital Radio

Ans. a. Page 350 to 354 of Text Book 1

Q9 (ii) Digital Multiplexers

Ans. Page 218 to 220 of Text Book 1

TEXT BOOK

I. Digital Communications by Simon Haykin, Wiley Student Edition.