

B.E. (Full-Time) DEGREE END SEMESTER EXAMINATIONS, NOV / DEC 2012

PRINTING TECHNOLOGY BRANCH

VI SEMESTER - (REGULATIONS 2004)

PT 511 ELECTRONIC COMMUNICATION

Time: 3 hr

Max. Mark: 100

Answer ALL Questions

Part – A (10 x 2 = 20 Mark)

1. Explain the term signal to noise ratio.
2. Explain channel capacity.
3. Explain the need for modulation.
4. Discuss antenna gain.
5. What you understood by propagation velocity.
6. What is line of sight propagation?
7. Discuss bandwidth requirement for digital communication systems.
8. Explain audio digitization.
9. Explain the advantages of fibre optics.
10. Explain TDM.

Part –B (5 x 16 = 80 Mark)

11. Explain in detail the various noises that affects the signal in a communication system.
12. (a) Explain amplitude modulation with suitable diagram also explain DSB- SC and Vestigial side band.

(or)

(b). Compare analogue and digital communication.
13. (a) Explain in detail the ground wave and sky wave propagation.

(or)

(b) Explain the Ionospheric propagation trophospheric propagation.
14. (a) Explain in detail the data transmission rate, cross talk, echo suppressor and equalizer.

(or)

(b) Explain the features of microwaves. Explain with suitable diagram a microwave transmitter and receiver.
15. (a) Explain with necessary block diagram an amplitude modulated transmitter and receiver.

(or)

(b) What is frequency division multiflexing? Draw and explain the block diagram of voice frequency channel FDM hierarchy.