

B.E. (Full-Time) DEGREE END SEMESTER EXAMINATIONS, APRIL / MAY 2012

PRINTING TECHNOLOGY BRANCH

VIII 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. Define modulation index for amplitude modulation
4. Explain the term Antenna Gain.
5. Explain redundant codes.
6. Explain the term Propagation Velocity.
7. Mention the frequency range of commercial FM transmission.
8. What is polarization ?
9. What is baud rate?
10. Explain briefly TDM.

Part –B (5 x 16 = 80 Mark)

11. Explain in detail the various noises that affect 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 the space waves, trophospheric propagation and ducting.

(or)

(b) Explain in detail the ground wave propagation and sky wave propagation.

14. (a) Explain in detail the data transmission rate, crosstalk, echo suppressor and equaliser.

(or)

(b) Explain the features of microwaves and also explain the advantages of fibre-optics.

15. (a) Explain with necessary block-diagram an amplitude modulated transmitter and receiver.

(or)

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