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B.E / B.Tech (Full Time) DEGREE END SEMESTER EXAMINATIONS, APRIL / MAY 2013
PRINTING TECHNOLOGY BRANCH
SEVENTH SEMESTER

EC 9051 – ELECTRONIC COMMUNICATION

(Regulation 2008)

26

Time: 3 Hours

Answer ALL Questions

Max. Marks 100

PART-A (10 x 2 = 20 Marks)

1. What is SN ratio?
2. Define : Modulation
3. List the types of analog modulation technique?
4. Write a short note on carrying channels.
5. What do you mean by propagation?
6. Write the property of EM waves.
7. Define: cross talk.
8. How the band width requirements are calculated?
9. Brief the principle of radio communication.
10. Draw the schematic diagram of communication system.

Part – B (5 x 16 = 80 marks)

11. List the types of noise and write a short a note on any four types of noise produced in the communication system
12. a) Explain briefly all the techniques used in phase modulation.
OR
b) Write a short note on following:
i).DSB-SC (4) ii). PCM (6) iii) Amplitude Modulation index (6)
13. a) Discuss the salient feature and principle of any sky wave propagation in detail.
OR
b) Explain the following: i).Tropospheric scatter (8) ii). Ionosphere (8)
14. a) Explain the basic principle of data communication system and its salient characteristics in detail.
OR
b) Discuss the importance and characteristics of voice and video digitization principle and its merits in detail
15. a) Explain the fibre optic communication using a neat block diagram.
OR
b) Describe the basic components of microwave communication with neat diagram