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Question Paper Code : P 1374

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2009.

Third Semester

Information Technology

IT 1202 — PRINCIPLES OF COMMUNICATION

(Regulation 2004)

Time : Three hours Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Define bandwidth.

2. What is meant by TRF?

3. Differentiate between FM and PM.

4. Define demodulation.

5. List any four encoding techniques in digital modulation.

6. Differentiate between binary PSK and DPSK.

7. What is ISI?

8. Define discrete PAM signals.

9. What do you mean by spread spectrum modulation?

10. What is Frequency hopping?

PART B — ($5 \times 16 = 80$ marks)

11. (a) Briefly explain the principles of Amplitude Modulation.

Or

(b) Explain the concept of AM transmitters.

12. (a) Discuss about Angle Modulation.

Or

(b) Explain briefly demodulation of FM signals.

13. (a) Explain the concept of QPSK modulation.

Or

(b) Compare the various systems of digital modulation.

14. (a) State the sampling theorem. Explain how message reconstruction is possible only if it is satisfied.

Or

(b) Discuss in detail about eye pattern.

15. (a) Discuss the principles of TDMA and CDMA.

Or

(b) Briefly explain the source coding of speech for wireless communication.
