C 18238

Name....................................

Reg. No....................................

SIXTH SEMESTER B.TECH. (ENGINEERING) DEGREE EXAMINATION, JUNE 2011

AI 04 604—ELECTRONIC COMMUNICATION SYSTEMS

(2004 admissions)

Time : Three Hours

Maximum : 100 Marks

Answer **all** *questions.*

I. (a) Briefly describe the propagation of RF wave.

(b) List the basic types of antenna.

(c) What is meant by AGC ? Write its significance.

(d) Write short notes on AM demodulation.

(e) Write the concept of delta modulation.

(f) Explain the features of FDM.

(g) Write the components of fiber optic link.

(h) Write the concepts of landline telemetry.

(8 × 5 = 40 marks)

II. (a) Explain the theory and generation of FM and PM.

Or

(b) Explain the communication system elements with neat diagrams.

III. (a) Explain the modulation and demodulation of PAM and PWM.

Or

(b) Explain the operation of SSB receiver, with neat diagrams.

IV. (a) Compare the digital modulation schemes ASK, FSK and PSK with neat waveforms.

Or

(b) Explain the concepts of PCM and DPCM.

V. (a) Discuss the principle and applications of satellite communication.

Or

(b) Discuss the frequency reuse concept used in cellular systems.

(4 × 15 = 60 marks)