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

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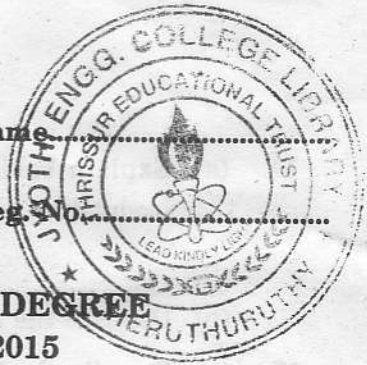
SEVENTH SEMESTER B.TECH. (ENGINEERING) DEGREE [09 SCHEME] EXAMINATION, NOVEMBER 2015

AI 09 703 – ELECTRONIC COMMUNICAITON SYSTEMS

Time : Three Hours

Maximum : 70 Marks

Part A
Answer all questions.

1. Define Standing Wave ratio as applied to a transmission line.

2. Define Characteristic impedance.

3. What is super heterodyne receiver?

4. Compare PCM and DPCM.

5. What is mean by Polar orbit and Inclined orbit?

(5 × 2 = 10 marks)

Part B
Answer any four questions.

6. Write short notes on Medium wave antenna.

7. Explain antenna arrays.

8. Describe Automatic Voltage control in IF Transmitter.

9. Describe Image Frequency and its rejection.

10. Explain the Spectrum of ASK and its significance.

11. Explain the Different methods of tracking a satellite.

(4 × 5 = 20 marks)

Part C
Answer Section (a) or Section (b) of each question.

12. (a) Discuss about Amplitude Modulation.

Or

(b) Explain Reactance tube Modulator using relevant circuit diagram.

13. (a) Describe Dual channel SSB receiver.

Or

(b) Explain the working of Intermediate frequency Amplifier and choc of IF.

Turn over

14. (a) Explain basic digital communication systems. What are most commonly used digital modulation techniques?

Or

(b) Describe the process of Time Division Multiplexing.

15. (a) Describe the Functional elements of Telemetry.

Or

(b) Explain with a neat block diagram a satellite communication link.

(4 × 10 = 40 marks)