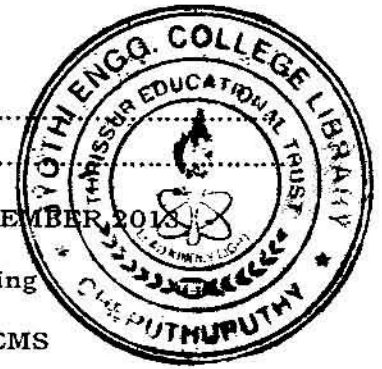


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Name :

Reg. No:



SEVENTH SEMESTER B.TECH DEGREE EXAMINATION, NOVEMBER 2018

Applied Electronics and Instrumentation Engineering

AI 09 703 – ELECTRONIC COMMUNICATION SYSTEMS

Time : Three Hours

Maximum : 70 Marks

PART A

Answer all Questions

1. List the frequency bands of EM Spectrum
2. Write down the expressions for modulation index & its range in case of AM ,FM
3. What is meant by image frequency? How it can be eliminated?
4. Define SNR. For an efficient communication system what must be the nature of the same
5. What is meant by a transponder?

(5x2marks)

PART B

Answer any four questions

6. Define characteristic impedance & SWR
7. Draw the block diagram of first method for generation of SSB & explain its working
8. Explain the working of foster seely phase discriminator for demodulation of FM
9. Compare TDM & FDM & WDM
10. What is meant by telemetry? define its standards
11. What is meant by Sampling & quantization?

(4x5marks)

PART C

12. What is meant by an antenna .Write down the principle of operation of various types with relevant sketches

OR

13. Define amplitude modulation derive its equation. Explain its features like power, band width, noise immunity etc
14. Explain envelope detector for AM demodulation also explain the role of AGC in AM

OR

15. Explain various analog pulse modulation techniques with relevant sketches
16. Explain Delta modulation with neat sketches. Discuss the major errors in delta modulation

OR

17. Explain ASK,FSK & PSK with relevant sketches
18. Explain the block diagram of Microwave Communication

OR

19. Define Landline telemetry & Electrical telemetry

(4x10marks)
