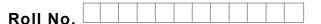
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Total No. of Pages : 02

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B.Tech. (ECE) (2012 to 2017)/(Electronics & Telecomm. Engg.)

(Sem	4)
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ANALOG COMMUNICATION SYSTEMS

Subject Code : BTEC-401

M.Code: 57593

Time: 3 Hrs.

Max. Marks : 60

INSTRUCTION TO CANDIDATES :

- 1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- 2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
- 3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

1. Answer briefly :

- a) Discuss the in analog communication system with neat diagram.
- b) Define noise and noise factor.
- c) Discuss tracking and alignment in AM reception.
- d) Discuss the AM receiver using phase locked loop.
- e) What do you mean by balanced modulator?
- f) What is selectivity in AM reception?
- g) Define modulation and demodulation.
- h) Discuss square law modulation.
- i) What do you mean by SSB system?
- j) Discuss the concept of pulse position modulation.



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SECTION-B

- 2. Explain how the phase modulation obtained from the frequency modulation.
- 3. Give a fair Comparison between AM and FM.
- 4. Write a short note on receiver parameters.
- 5. Discuss the frequency modulator with diagram.
- 6. Explain the AM receiver characteristics.

SECTION-C

- 7. Discuss the generation of SSB transition with their three different methods.
- 8. Write a note on multiplicative mixer using dual gate MOSFET with diagram.
- 9. Discuss the different element of communication system with block diagram.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.