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B.Tech. (ECE) (Sem.-5)

ANALOG AND DIGITAL COMMUNICATION

Subject Code: UC-BTEC-501-18 M.Code: 78757

Time: 3 Hrs. Max. Marks: 60

INSTRUCTIONS TO CANDIDATES:

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

SECTION-A

Write briefly:

- Differentiate between analog and digital signals.
- 2) What is the significance of carrier in modulation?
- Draw the frequency spectrum of DSB-SC signal.
- Enlist various types of noise in communication channel.
- 5) What do you mean by Unit impulse function?
- Differentiate between FDM and TDM.
- Explain aperture effect.
- Define slope overload distortion in delta modulation.
- 9) What are the digital modulation formats?
- 10) What are the advantages of MSK?

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SECTION-B

- Derive the expression for AM wave.
- Explain the sampling process and its various steps in detail.
- Explain Adaptive Delta Modulation in detail.
- Describe the noise in frequency modulation.
- Draw and describe continuous phase modulation.

SECTION-C

- Explain the generation and detection of VSB wave.
- Draw and explain working of adaptive delta modulation. PSK.
- Describe the generation and detection of QPSK.

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.

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