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Total No. of Questions: 09

B.Tech.(EE)/(Electrical & Electronics) (2011 Onwards E-I) (Sem.-6)

PRINCIPLES OF COMMUNICATION SYSTEMS

Subject Code : BTEE-605E M.Code : 71156

Time: 3 Hrs. Max. Marks: 60

INSTRUCTION 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

Answer briefly :

- (a) Define Amplitude modulation.
- (b) Define frequency modulation.
- (c) What do you understand by the principle of the camera?
- (d) Define time division multiplexing.
- (e) Give advantages and disadvantages of frequency division multiplexing.
- (f) Explain the properties of practically realizable filter.
- (g) Explain the concept of independent sideband transmitter.
- (h) What do you mean by vestigial sideband transmission?
- What do you mean by pulse amplitude modulation (PAM)?
- Define double side band and single side band.

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SECTION-B

- 2. Classify the tuned radio frequency receiver and super heterodyne receiver.
- 3. What is the necessity of Non-uniform Quantization in PCM system?
- 4 Draw and explain the diagram of picture tube of T.V.
- 5. Compare the pulse position modulation and pulse code modulation.
- 6. Why and how phase lock loop is used in amplitude modulation receiver?

- Explain the working and draw the block diagram of the television receiver and 7. transmission.
- Explain the different types of modulation along with diagrams. Also give its advantages 8. eries and Four
- Explain and drive the Fourier series and Fourier transform of periodic signals. 9.

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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