Total No. of Questions : 8]

Roll No

CS-4003-CBGS

B.E. IV Semester

Examination, June 2020

Choice Based Grading System (CBGS) Analog and Digital Communication

Time : Three Hours

Maximum Marks : 70

- *Note:* i) Attempt any five questions out of eight questions.
 - ii) All questions carry equal marks.
 - iii) Assume suitable data, if required.
- a) Draw and explain the periodic impulse of Sine and Cosine wave. Define and explain the Sampling and Sine Function. Derive its expression.
 - b) Write and explain the relations for time domain and frequency domain representation for any signal.
- 2. a) Expland the use of Base Band Signals. What is the need of Modulation in a System? Explain
 - b) (September 2017) b) (Se
- 3. a) Give an introductory note on Modulation techniques.
 - b) Write any five differences between Amplitude Modulation and Angle Modulation.
- 4. a) What do you mean by low pass and band pass signal? Explain Quantization and quantization error.
 - b) Describe Differential PCM. Explain its block diagram. Write its consequences to use with linear signals.

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- 5. a) Explain Digital Modulation Techniques. What is the difference between ASK and BPSK?
 - b) Write down generation, detection, equation and bandwidth of Differential phase shift keying.
- 6. a) Write down generation, detection, equation and bandwidth of Binary Frequency shift keying.
 - b) Discuss the concept of energy density and power in a signals.
- 7. a) Give a brief introduction on Natural and Flat top sampling.
 - b) Write any five differences between offset and non offset QPSK.
- 8. Write short notes (any four):
 - a) M Ary PSK
 - b) M Ary FSK
 - c) Aperture Effect
 - d) PAM TKM Signal
 - e) SSB and VSB

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Contd....

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