

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages. 2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.



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7	a. b. c.	What are the advantages of digital signal over analog signal? State and prove sampling theorem for band limited signals. With neat block diagram, explain the generation of PPM waves.	(04 Marks) (08 Marks) (08 Marks)
8	a. b. c.	With neat block diagram, explain the generation PAM waves. Describe the effect of noise in pulse position modulation. Explain the working of TDM system with necessary block diagram.	(08 Marks) (06 Marks) (06 Marks)
9	a. b. c.	Explain the construction and regeneration of PCM signal. Explain the construction of Delta modulation signal. Write short notes on vocoder.	(10 Marks) (06 Marks) (04 Marks)
10	a.	What is quantization noise? Derive the output signal to noise ratio of the uniform	n quantizer.
	b.	To transmit a bit sequence 10011011. Draw the resulting waveform using : i) Unipolar NRZ ii) Polar NRZ iii) Unipolar RZ iv) Bipolar RZ v) Manchestor (split phase).	(07 Marks) (06 Marks)
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