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		Roll No
		EC-4002 (CBGS)
		<b>B.E. IV Semester</b>
		Examination, May 2018
	Cl	noice Based Grading System (CBGS)
		Signals and Systems
		Time: Three Hours
		Maximum Marks : 70
No	ote: i	) Attempt any five questions.
	i	i) All questions carry equal marks.
1.	a)	Explain the Basic operations of signals with an examples.
	b)	What is sampling and quantization? Explain in detail. 7
2. Explain the following with an e		plain the following with an examples: 6+4+4
	a)	Static and Dynamic
	b)	Stability
	c)	Causality
3.	a)	Define ROC and its properties. 4
	b)	Derive the relation between discrete time Fourier Transform and Z Transform.

4.	Dei	rive the following properties of Z transform 4+5+5	
	a)	Time shifting	
	b)	Initial Value theorem	
	c)	Convolution	
5.	a)	Explain the Impulse response characterization. 7	
	b)	Explain the properties of convolution summation. 7	
6.	a)	What is Discrete time Fourier series and explain in detail?	
	b)	What are the applications of DTFT?	
7.	Derive the following properties of Z transform 4+5+5		
	a)	Time Reversal	
	b)	Differentiation in time domain	
	c)	Frequency shifting	
8.	a)	What is recursive and non recursive discrete time systems?	
	b)	Compare continuous and discrete time LTI systems. 7	
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