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GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VI (NEW) - EXAMINATION – SUMMER 2018

Subject Code: 2160807

Date: 10/05/2018

Subject Name: Digital Control System

Time: 10:30 AM to 01:00 PM

Total Marks: 70

Instructions:

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

		MARKS	
Q.1	(a) Comparison between digital Control System & analog control system with block diagram.	03	
	(b) What is Aliasing? Explain it by waveforms.	04	
	(c) Explain the Basic Structure of Computer-Controlled	07	
Q.2	(a) Explain the various Advantages offered by Digital Control.	03	
	(b) Explain the Jury Stability Criterion.	04	
	(c) Explain the Generalized Operational Block Diagram of Feedback Control System	07	
OR			
Q.3	(c) Write a short note on Digital Temperature Control System.	07	
	(a) Write a short note on Digital Position Control System	03	
	(b) Explain Practical Sample and Hold Circuit.	04	
Q.3	(c) Explain the Basic Block Diagram of PLC and Explain the Ladder Diagram of AND Function.	07	
	OR		
	Q.3	(a) Explain BIBO stability in detail.	03
(b) Explain Mathematical Modeling of Sampling Process.		04	
(c) Explain the effect of High Gain on the Control system. Which are the Limiting factors for High Gain.		07	
Q.4	(a) Explain Properties of Z-transform any one.	03	
	(b) Explain Conversion of State variable Modals to transfer Function.	04	
	(c) Explain the z-Domain Description of System with Dead Zone with Necessary Equation.	07	
OR			
Q.4	(a) Explain the Controllability and Observability.	03	
	(b) Explain Sampling and Quantization effect in detail.	04	
	(c) Design Phase Lag compensator using root locus plot.	07	
Q.5	(a) Explain the reconstruction of analog signal	03	
	(b) Explain the Invariance property of a state variable system.	04	
	(c) Explain the state variable analysis for a Multi-Variable system.	07	
OR			
Q.5	(a) Explain the Eigen Values and Eigen Vectors of a System.	03	
	(b) Explain the relation between transfer function and state space model for a discrete time system.	04	
	(c) Explain the design Specification & configuration of basic digital control system	07	

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