Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

Subi	ect (BE - SEMESTER-VI(NEW) EXAMINATION – WINTER 2022 Code:3161013 Date:15-12	
•		Name:Systems Engineering	
•		:30 PM TO 05:00 PM Total Mar	rks•70
Instru			1 K5. / U
IIISU G	1.	Attempt all questions.	
	2.	Make suitable assumptions wherever necessary.	
		Figures to the right indicate full marks.	
	4.	Simple and non-programmable scientific calculators are allowed.	MADIZO
			MARKS
Q.1	(a)	•	03
	(b)		04
	(c)	Explain all phases of System Life Cycle.	07
Q.2	(a)	What is lifecycle integration?	03
	(b)	i i i	04
	(c)		07
		OR	
	(c)	Explain in brief Systems Engineering Management.	07
Q.3	(a)	What is requirement analysis?	03
	(b)	·	04
	(c)		07
0.0		OR	0.2
Q.3	(a)	· · · · · · · · · · · · · · · · · · ·	03
	(b)	•	04
	(c)	Explain Model based Systems Engineering (MBSE)	07
Q.4	(a)	What are trade studies?	03
	(b)		04
	(c)	Explain the model for engineering development phase.	07
		OR	
Q.4	(a)		03
	(b)		04
	(c)	Explain design synthesis processes in detail.	07
Q.5	(a)	What is design synthesis?	03
	(b)	Explain System Maintenance Process in brief.	04
	(c)	_ **	07
		OR	
Q.5	(a)		03
	(b)	· · · · · · · · · · · · · · · · · · ·	04
	(c)	Explain Product Verification process in detail.	07
