

GUJARAT TECHNOLOGICAL UNIVERSITY**BVOC – SEMESTER IV – EXAMINATION – WINTER 2021****Subject Code: 1140302****Date: 31/12/2021****Subject Name: Agile and Lean Manufacturing System.****Time: 02:30 PM to 04:30 PM****Total Marks: 50****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. Simple and non-programmable scientific calculators are allowed.

		Marks
Q.1	(a) Write short note on 5S.	05
	(b) Explain Kanban system.	05
Q.2	(a) Explain Toyota house production system	05
	(b) Explain is Kaizen system	05
OR		
	(b) compare lean manufacturing with mass production	05
Q.3	(a) What is value stream mapping,	05
	(b) Explain value and non value added activities with example	05
OR		
Q.3	(a) Write and explain types of value stream mapping	05
	(b) Explain value and value added activities with example	05
Q.4	(a) State types of waste. Explain motion waste	05
	(b) Explain flow, pull system and perfection system	05
OR		
Q.4	(a) State principles of lean manufacturing system. Explain value and value system	05
	(b) Explain over processing waste	05
Q.5	(a) Write down keys to agility and flexibility.	05
	(b) Write down advantages and disadvantages of agile manufacturing system.	05
OR		
Q.5	(a) Write down advantages and disadvantages of agile manufacturing system.	05
	(b) Differentiate between agile and lean manufacturing system.	05