

GUJARAT TECHNOLOGICAL UNIVERSITY**BVOC - SEMESTER-IV EXAMINATION – SUMMER 2022****Subject Code:1140302****Date:04-07-2022****Subject Name:Agile and Lean Manufacturing Systems****Time:10:30 AM TO 12:30 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) Explain Toyota Production System.	05
(b) List out the advantages of LM over mass production.	05
Q.2 (a) Explain tools & techniques for Lean Manufacturing.	05
(b) Define JIT. List out the benefits of JIT.	05
OR	
(b) Explain different JIT implementation technique.	05
Q.3 (a) List out types of waste. Explain any two.	05
(b) Explain lean manufacturing principle.	05
OR	
Q.3 (a) Explain types of value stream mapping	05
(b) Explain value- and value-added activities with example.	05
Q.4 (a) List out 5S. Explain anyone.	05
(b) What do you understand by Kaizen? Discuss three pillars of Kaizen for continuous improvement.	05
OR	
Q.4 (a) Explain in details KANBAN.	05
(b) Explain KAIZEN Umbrella.	05
Q.5 (a) Write a short note on Agile Manufacturing.	05
(b) Write a short note on Lean Manufacturing.	05
OR	
Q.5 (a) Write advantages and disadvantages of agile manufacturing system.	05
(b) Differentiate between agile and lean manufacturing system.	05
