

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

BVOC- SEMESTER- IV EXAMINATION – SUMMER 2023

Subject Code:21140302

Date:26-06-2023

Subject Name: Agile and Lean Manufacturing system

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) What are the 8 Pillars of Total Productive Maintenance?	05
	(b) What are the Benefits of Lean Manufacturing?	05
Q.2	(a) Explain the cause and effect diagram with suitable example.	05
	(b) Explain the principles of lean manufacturing.	05
	OR	
	(b) What are the types of Waste in Lean Manufacturing?	05
Q.3	(a) Discuss seven QC tools in detail with suitable diagrams.	05
	(b) Discuss 5s technique as a quality control tool.	05
	OR	
Q.3	(a) What are seven new quality management tools? Explain in detail.	05
	(b) What do you understand about Kaizen? Discuss three pillars of Kaizen for continuous improvement.	05
Q.4	(a) What Is Quality Management?	05
	(b) What is ISO 9000?	05
	OR	
Q.4	(a) What are the ISO 9000:2015 principles of Quality Management?	05
	(b) What standards are there in the ISO 9000 family?	05
Q.5	(a) Write a short note on Agile manufacturing.	05
	(b) What are the Ten pillars of WCM?	05
	OR	
Q.5	(a) Write a short note on Total Productive Maintenance (TPM).	05
	(b) What are the objectives of TPM?	05
