

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE – SEMESTER- VII EXAMINATION-SUMMER 2023

Subject Code: 2172502

Date: 27/06/2023

Subject Name: Productivity Improvement Methods

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.
4. Simple and non-programmable scientific calculators are allowed.

		MARKS
Q.1	(a) Discuss Product, Process, Production and Productivity in brief	03
	(b) Discuss reasons for low productivity	04
	(c) Explain key contributors of Productivity Improvement	07
Q.2	(a) What is the role of Method study in Work study?	03
	(b) Explain procedure of Method study in brief	04
	(c) Explain Operation Process Chart with a suitable example	07
	OR	
	(c) Explain Man Machine chart with a suitable example	07
Q.3	(a) Discuss String Diagram	03
	(b) Explain principles of work place layout	04
	(c) What is Therblig? Discuss any six Therbligs	07
	OR	
Q.3	(a) Define Time Study. Give steps of Work Measurement	03
	(b) Give example of two handed process chart	04
	(c) Explain SIMO chart with a suitable example	07
Q.4	(a) Define and explain term Ergonomics	03
	(b) How ergonomics is helpful in improving product?	04
	(c) Discuss applications of ergonomics	07
	OR	
Q.4	(a) Define and explain term Performance Rating	03
	(b) How Performance Rating is carried out? Give example	04
	(c) Discuss various incentive schemes	07
Q.5	(a) Define and explain the term BPR	03
	(b) Discuss steps involved in BPR	04
	(c) Explain Organizational Re-engineering	07
	OR	
Q.5	(a) Discuss requirement of BPR in industry	03
	(b) Discuss Re-engineering Tools	04
	(c) Explain activities of National Productivity Council	07
