

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VII (NEW) EXAMINATION-WINTER 2018

Subject Code: 2172502 Date: 15/11/2018

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.

Q.1	(a) (b) (c)	Enlist various technical methods used for improving productivity. Define productivity. Discuss importance of productivity. Discuss various causes of low productivity. Explain factors that help increasing productivity.	03 04 07
Q.2	(a) (b)		03 04
	(c)	measurements. Explain basic procedure to be followed for method study. OR	07
	(c)	Define operation process chart. Prepare operation process chart for replace burnt elements of Iron.	07
Q.3	(a)	Explain flow diagram.	03
	(b)	Define flow process chart. Explain types of flow process chart.	04
	(c)	Write a detail note on motion economy. OR	07
Q.3	(a)	Give concept and objective of work measurements.	03
	(b)	Define string diagram. Explain construction procedure of string diagram.	04
	(c)	Prepare two handed process chart for writing a letter using pen.	07
Q.4	(a)	Explain performance rating.	03
	(b)	Write a note on PMTS.	04
	(c)	Discuss in detail SIMO chart.	07
0.4	(0)	OR	03
Q.4	(a) (b)	Explain various tools for ergonomics. Explain human behavior and equipment design in concern with ergonomics.	03
	(c)	Discuss development of BPR. Write steps involved in BPR.	07
Q.5	(a)		03
	(a) (b)	•	03
	(c)	Write a detail note on Therbligs.	07
	(0)	OR	97
Q.5	(a)		03
	(b)		04
	` ′	Explain types of maintenance. How plant maintenance is scheduled?	07
