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GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER- VII (New) EXAMINATION - WINTER 2019

Subject Code: 2172502 Date: 23/11/2019

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.

			MARKS
Q.1	(a)	Differentiate production and productivity in light of economic progress of India. Take an example of ship breaking industries.	03
	(b)	Define flow process chart. Explain types of flow process chart.	04
	(c)	Define method study. Take an example of a manufacturing industry, and discuss economic, technical and human factors' consideration in selection of a job for study.	07
Q.2	(a)	Write a brief note on construction of a SIMO chart.	03
	(b)	Write a brief note on Therbligs and PMTS.	04
	(c)	Discuss implementation methodology of BPR. Take a suitable example. OR	07
	(c)	Discuss various causes of low productivity. Explain factors that help increasing productivity.	07
Q.3	(a)	Explain performance rating.	03
	(b)	Explain human behavior and equipment design in concern with ergonomics.	04
	(c)	Write a detail note on motion economy. OR	07
Q.3	(a)	Discuss why it is considered crucial to know as to 'when to reengineer'.	03
	(b)	Discuss effect of environment on performance of worker, with suitable illustration	04
	(c)	Discuss development of BPR. Write steps involved in BPR.	07
Q.4	(a)	Define outline process chart.	03
_	(b)	List methods of work measurement.	04
	(c)	Explain string diagram for productivity improvement. OR	07
Q.4	(a)	Define standard time.	03
	(b)	Write a brief note on allowances.	04
	(c)	Explain man-machine chart in detail.	07
Q.5	(a)	Enlist time estimating techniques.	03
	(b)	Prepare a two handed process chart for filling ink in a fountain pen.	04
	(c)	Write a note on Contemporary issues in productivity.	07
		OR	
Q.5	(a)	What is NPC?	03
	(b)	Discuss various incentive schemes followed by organization.	04
	(c)	Explain various methods used to determine the basic time required to	07
