Seat No.: _____

(c)

through internal assessment.

Enrolment No.____

GUJARAT TECHNOLOGICAL UNIVERSITY

		GUJARAT TECHNOLOGICAL UNIVERSIT		
a		E - SEMESTER-VI (NEW) EXAMINATION - WINTER 201		
•			e:30/11/2018	
_		me:Industrial Engineering		
Time: 02:30 PM TO 05:00 PM Total 1				
Instruc		ttempt all questions.		
		ake suitable assumptions wherever necessary.		
		gures to the right indicate full marks.		
Q.1	(a)	Draw plant layout of 'Automobile Repair and Service shop'.	03	
	(b)	Differentiate: Product Layout and Plant Layout.	04	
	(c)	List out the factors, which are considered for site selection for ar	ny 07	
		industry. Apply and discuss the same for 'Automobile compone	nt	
		Manufacturing' industry.		
Q.2	(a)	Discuss: Two Handed process charts	03	
	(b)	Prepare a list of "Therbligs" used in the industry. (Any Eight)	04	
	(c)	What do you mean by 'Time Study'? Why it is essential? Discu	ss 07	
		Pre-determined motion and time systems as a tool of 'Tin	ne	
		Study'.		
		OR		
	(c)	In context of Work Study, explain 'Normal Working Area ar	nd 07	
		Work Place Design'.		
Q.3	(a)	What is 'Make or Buy' Decision? Explain with suitable example	le. 03	
	(b)	Explain 'Variables' and 'Attributes' in context of quality contr charts.	ol 04	
	(c)	Discuss the reasons for 'Low productivity' in the organization. OR	07	
Q.3	(a)	Explain exponential moving average method of forecasting wi suitable data.	th 03	
	(b)	Write Explanatory note on: Process capability	04	
	(c)	Discuss the phases of Production, planning and control (PPC).	07	
Q.4	(a)	Explain: Halsey Incentive Plan	03	
	(b)	What is 'Job Evaluation' and why it is necessary to carry out 'Jo	ob 04	
		Evaluation'?		
	(c)	Why Quality is essential for any product? Discuss the facto	rs 07	
		affecting quality of the product?		
		OR		
Q.4	(a)	Explain: Emerson's efficiency Plan	03	
	(b)	Discuss: 'Factor comparison method' for Job evaluation.	04	

Discuss the concept of 'Quality circle' for improving the quality

07

Q.5	(a)	Discuss the provisions of 'Working hours' as per Factories Act,	03
		1948.	
	(b)	Discuss major provisions of 'Workman's compensation Act,	04
		1925'.	
	(c)	Discuss various Government initiatives for promoting entrepreneurship.	07
		OR	
Q.5	(a)	Under which conditions, 'Strike' is not possible by employees as per Industrial dispute Act, 1947.	03
	(b)	Discuss major provisions of 'Employee Provident Fund Scheme, 1952'.	04
	(c)	As an entrepreneur, prepare a project report on business opportunity on 'Export – import business in India'.	07
