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GUJARAT TECHNOLOGICAL UNIVERSITY

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

Subject Code:2161907 Date:3			0/11/2018	
Subje	ect Na	me:Industrial Engineering		
Time: 02:30 PM TO 05:00 PM Total Ma				
Instru				
	2. M	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 any	07	
		industry. Apply and discuss the same for 'Automobile component 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? Discuss	07	
		Pre-determined motion and time systems as a tool of 'Time Study'.		
		OR		
	(c)	In context of Work Study, explain 'Normal Working Area and	07	
		Work Place Design'.		
Q.3	(a)	What is 'Make or Buy' Decision? Explain with suitable example.	03	
	(b)	Explain 'Variables' and 'Attributes' in context of quality control	04	
		charts.		
	(c)	Discuss the reasons for 'Low productivity' in the organization.	07	
		OR		
Q.3	(a)	Explain exponential moving average method of forecasting with	03	
		suitable data.		
	(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 'Job	04	
		Evaluation'?		
	(c)	Why Quality is essential for any product? Discuss the factors	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	
	(c)	Discuss the concept of 'Quality circle' for improving the quality	07	

through internal assessment.



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Q.5	(a)	www.FirstRanker.com www.FirstRan Discuss the provisions of 'Working hours' as per Factories Act, 1948.	03
	(b)	Discuss major provisions of 'Workman's compensation Act, 1925'.	04
	(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

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