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GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VI (OLD) EXAMINATION – WINTER 2018			
Subject Code:161907 Date: 04/12/20			8
Subject Name: Industrial Engineering			
Time: 02:30 PM TO 05:00 PMTotal Marks: 70Instructions:			0
1. Attempt all questions.			
	2.	Make suitable assumptions wherever necessary.	
3. Figures to the right indicate full marks.			
Q.1	(a)	Discuss the factors to be considered for the selection of the site for Thermal Power plant.	07
	(b)	Define plant lay out. discuss following types of plant layout (1) Process layout (2) Group technology	07
		(3) Fixed position layout	
Q.2	(a)	Describe Exponential Smoothing method of sales forecasting. States is advantages and limitations.	07
	(b)	Explain in brief the following : i) Flow diagram ii) Two-hand process chart	07
		OR	
	(b)	Explain the functions of production planning and control.	07
Q.3	(a)	What is the term productivity? State various ways to improve productivity. Explain any one of them with suitable example.	07
	(b)	List the various Therbligs with their symbols. Explain applications of micro motion study.	07
0.1		OR O	07
Q.3	(a) (b)	State the objectives of work measurement. Name the work measurement techniques. What is job evaluation? Discuss any one method of job evaluation.	07 07
0.4			
Q.4	(a)	Explain the following: (i) The workmen's Compensation Act, 1923 (ii) The Factory Act,1948	07
	(b)	Explain (1) quality assurance (2) quality and inspection (3) T. Q. M. OR	07
Q.4	(a)	Write short note on single and multiple sampling plans.	07
	(b)	What is entrepreneur and entrepreneurship? State the factors influencing entrepreneurship.	07
Q.5	(a)	What is an OC curve? Explain the step-by-step procedure for the construction of an OC curve.	07
	(b)	Define wages. Explain in brief various types of incentives. OR	07
Q.5	(a)	Distinguish between job evaluation and merit rating. Discuss its importance and objectives.	07
	(b)	What is industrial dispute? Discuss the process of resolving the industrial disputes through the Industrial Dispute Act.	07
