Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

PDDC - SEMESTER–VI • EXAMINATION – SUMMER 2013

Subject Code: X61904 **Date: 12-06-2013**

Subject Name: Industrial Engineering

Time: 10.30 am - 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)**	Discuss the various factors affecting plant location in detail.	**07**
	(b)	State the objectives of Plant Layout. Enlist the various types of layout discuss any one with line sketch.	**07**
Q.2	**(a)**	Explain Production Planning and Control. Discuss the objectives of Production Planning and Control.	**07**
	(b)	What do you mean by fore casting ? State the various methods of forecasting and explain any one with the suitable illustration	**07**
		OR	
	(b)	Discuss the scheduling methods.	**07**
Q.3	**(a)**	Define work study and explain what is the scope of work study in raising the productivity in an enterprise.	**07**
	(b)	What is method study? What are the types of job in which method study can be applied.	**07**
		OR	
Q.3	**(a)**	Write a short note on : “Factories Act, 1948”	**07**
	(b)	Explain “Employer” and “Employee” under the Employees Provident Funds and Miscellaneous Provision Act, 1952.	**07**
Q.4	**(a)**	Write a short note on : “Job Evaluation Techniques”	**07**
	(b)	Define Wages and explain in brief various types of Incentives	**07**
		OR	
Q.4	**(a)**	Discuss the following : (1) Characteristic of an Entrepreneur (2) Feasibility report of Entrepreneurship	**07**
Q.4	**(b)**	Discuss the various source of Industrial Finance for an Entrepreneur.	**07**
Q.5	**(a)**	Discuss the types of Inspection and benefit of inspection.	**07**
	(b)	Discuss the following : (1) Total Quality Management (2) O-C curve	**07**
		OR	

Q.5 **(a)** 10 samples, each of size 50 of a pipe were inspected in pressure testing. The result of the inspection are given below. Draw p- chart and state your conclusion. **07**

Sample No.	1	2	3	4	5	6	7	8	9	10
No.of defects	2	3	2	0	2	3	2	1	1	3

(b) Samples of 4 each were taken for study, the measurement of which were noted as follows. Draw a control chart for A_2=0.73, for sample size 4 **07**

Sample no	Measurement in mm			
1	20	22	25	24
2	18	23	20	26
3	24	25	22	20
4	23	21	26	24
5	24	25	24	21

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