

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 **07**
discuss any one with line sketch.

- Q.2** (a) Explain Production Planning and Control. Discuss the objectives of **07**
Production Planning and Control.
(b) What do you mean by fore casting ? State the various methods of **07**
forecasting and explain any one with the suitable illustration

OR

- (b) Discuss the scheduling methods. **07**

- Q.3** (a) Define work study and explain what is the scope of work study in raising **07**
the productivity in an enterprise.
(b) What is method study? What are the types of job in which method study **07**
can be applied.

OR

- Q.3** (a) Write a short note on : “Factories Act, 1948” **07**
(b) Explain “Employer” and “Employee” under the Employees Provident **07**
Funds and Miscellaneous Provision Act, 1952.

- 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 : **07**
(1) Characteristic of an Entrepreneur
(2) Feasibility report of Entrepreneurship

- 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 : **07**
(1) Total Quality Management
(2) O-C curve

OR

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

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 **07**
noted as follows. Draw a control chart for $A_2=0.73$, for sample size 4

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
