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FIFTH SEMESTER DIPLOMA EXAMINATION IN ENGINEERING/ TECHNOLOGY — MARCH, 2015

INDUSTRIAL MANAGEMENT AND SAFETY

(Common to all branches except DCP, CE, QS & CM, AR and CB)

[Time: 3 hours

(Maximum marks: 100)

PART-A

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(Maximum marks: 10)

Marks

- I Answer all questions in one or two sentences. Each question carries 2 marks.
 - 1. What is job evaluation?

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- 2. Define inventory.
- 3. What is dummy activity?
- 4. Define accident.
- 5. Write any two causes of air pollution.

 $(5 \times 2 = 10)$

PART—B

(Maximum marks: 30)

- II Answer any five of the following questions. Each question carries 6 marks.
 - 1. List the functions of management.
 - 2. Explain different method of training.
 - 3. State various benefits of ISO.
 - 4. List the methods of purchasing.
 - 5. What are the scope of CPM and PERT?
 - 6. List the environmental factors causing accident.
 - 7. List the necessity of solid waste management.

 $(5 \times 6 = 30)$

PART-C

(Maximum marks: 60)

(Answer one full question from each unit. Each full question carries 15 marks.)

UNIT-I

8 III (a) Explain the contributions of FW Taylor to Scientific management. 7 (b) How to start a co-operative society? 8 IV (a) What are the advantages and disadvantages of functional organization? 7 (b) Explain differential piece rate system. UNIT-II 10 Write any ten functions of sales department. 5 (b) What is bin card? Explain. OR 8 VI (a) List the steps of purchase procedure. 7 (b) List the steps for ISO 9000 installation. UNIT-III VII (a) Write short note on: 6 (ii) Earliest finish (iii) Latest finish. Activity A project has 7 activities. Draw the network diagram. 3 times estimates are given below: Draw the project network (iii) Find the project duration. (i) (ii) Identify the critical path

Activity Optimistic time (weeks)		Most likely time (weeks)	Pessimistic time (weeks)	
1-2	1	1	7	
1-3	1	4	7	
1-4	2	2	8	
2-5	I	1	1	
3-5	2	5	14	
4-6	2	5	8	
5-6	3	6	15	

VIII (a) State the applications of CPM and PERT.

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(b) A healthy person wanted to decide his daily requirements of proteins, fats and carbohydrates at the minimum cost. The choice is to be made from 4 different types of foods. The yields per unit of these foods are given below:

Yield per unit						
Food type	Proteins Fats		Carbohydrates	Cost per unit (₹)		
A	4	3	7	45		
В	5	3	3	40		
С	9	8	8	80		
D	7	6	5	60		
Minimum requirement	800	200	700			

Formulate the LPP for the above model.

UNIT—IV

IX (a) State the following:

(i) Performance index (ii) Incident rate.

(b) List environment factors of accident.

OR

X (a) State the mechanical factors of accident.

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(b) Explain the precautions while working in hazardous environment.