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(REVISION-2010) 2015

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Reg. No. ....

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FIFTH SEMESTER DIPLOMA EXAMINATION IN ENGINEERING/  
TECHNOLOGY—MARCH 2014 Model

INDUSTRIAL MANAGEMENT AND SAFETY

[Common to all branches except CE, DCP, QS, CM, AR and CB]

[Time : 3 hours

(Maximum marks : 100)

Marks

PART—A

(Maximum marks : 10)

I Answer all questions in one or two sentences. Each question carries 2 marks.

1. List the different types of ownerships.
2. Define Quality Audit.
3. State the concept of Network Analysis.
4. List the 4Es of accident prevention.
5. List the different methods of noise control.  
Factories act - 1948.

(5×2=10)

PART—B

(Maximum marks : 30)

II Answer any five of the following questions. Each question carries 6 marks.

1. Give brief descriptions on the different organizational structures.
2. Distinguish between Private Limited and public Limited companies.
3. Enumerate any six duties of a store keeper.
4. List the objectives of inventory control.
5. Compare the CPM and PERT methods.
6. List the various techniques used in Operations Research to solve optimization problems.

7. Briefly explain the procedure for controlling air pollution due to automobiles. (5×6=30)  
List the contents of business plan.

PART—C

(Maximum marks : 60)

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

UNIT—I

- III (a) Discuss briefly Henry Fayol's principles of management. 9
- (b) Write the various advantages of motivation. 6

OR

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Marks

- IV (a) Explain the major activities of man power planning. 6
- (b) Discuss the methods of job evaluation system. 9

UNIT—II

- V (a) Explain the benefits enjoyed by an ISO 9001:2000 certified company. 10
- (b) List and give brief explanations on the methods available for sales forecasting. 5

OR

- VI (a) Explain the three prong approach to Quality Planning. 10
- (b) List the ten manthras for TQM. 5

UNIT—III

VII An organization has 9 activities. Optimistic, Most likely and Pessimistic Time estimates for each activity is given. Draw the network diagram. Find out the following :

- (i) Earliest expected time (iii) Slack for each activity.
- (ii) Latest allowable time

Activity	Optimistic time	Most likely time	Pessimistic time
1-2	5	7	15
1-6	5	7	9
2-3	7	18	23
2-4	4	5	12
3-5	7	18	23
4-5	5	7	15
6-7	7	9	17
5-8	5	7	9
7-8	12	22	26

15

OR

- VIII (a) Briefly explain which type of problems can be solved using Linear Programming. 5
- (b) Solve the following game :

Player A

Player B	3	-1	5	10
	-5	4	3	7
	8	7	6	8

10

UNIT—IV

- IX (a) Discuss the various factors which may lead to an accident in a factory. 10
- (b) List the role of supervisors in implementing safety measures in a factory. 5

X (a) <sup>OR</sup> Explain concept of entrepreneurship, List the functions of an entrepreneur. 10

(b) ~~List the methods of solid waste management.~~

- ⓑ List the steps involved in starting small scale<sup>s</sup> industry
- ⓒ Describe the procedure for registration of SSI.