**DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/MANGEMENT/
COMMERCIAL PRACTICE - NOVEMBER 2021**

INDUSTRIAL MANAGEMENT & SAFETY

(Maximum Marks:75)   (Time: 2¼ hours)

PART - A

Marks

I.   Answer *any three* questions in one or two sentences. Each question carries 2 marks.

1.   Write the meaning of Espirit-de-Crops.

2.   Define Sole Proprietorship.

3.   How is second party audit conduct.

4.   Define Critical Path.

5.   How incidence rate is calculated.   (3 x 2 = 6)

PART - B

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

1.   Write notes on different types of organizational structure.

2.   Write the operative function of HRM.

3.   What is the three prong approach to quality planning.

4.   List the objectives of purchase department.

5.   Distinguish between CPM and PERT.

6.   Write the need for safety measures in industry.

7.   What are the programs of DSIR.   (4 x 6 = 24)

PART – C

(Answer *any of the three units*   from the following. Each full question carries 15 marks.)

UNIT - I

III   a)   What are the functions of management.   (8)

        b)   Explain different types of Ownership.   (7)

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OR

IV   (a)   Explain different types of wages.   (8)

      (b)   Explain the objectives of training.   (7)

UNIT – II

V   (a)   Describe the concept of Total quality management.   (8)

      (b)   Explain the role of standards.   (7)

OR

VI   (a)   Explain EOQ with figure.   (8)

      (b)   List the functions of sales department.   (7)

UNIT – III

VII   (a)   Explain the terms:

             i)   Pessimistic time   ii)   Optimistic time   iii) Most likely time   (6)

      (b)   Find the EFT, LFT, Float, Critical Path and Project duration in days, of a project having seven activities using CPM

Activity	1-2	1-3	2-4	3-5	4-6	5-6	6-7
Duration (Days)	5	3	1	2	2	2	3

(9)

OR

VIII (a)   List the different quantitative techniques.   (6)

      (b)   Solve the given game using Max-Mini and Mini-Max principle and find the saddle point, best strategy for both players and also find the value of the game.   (9)

Player A

Player B $\begin{bmatrix} 2 & 5 & -3 \\ 5 & 8 & 2 \\ 8 & 5 & 4 \end{bmatrix}$

UNIT – IV

IX   (a)   What are the causes of accidents and explain them.   (7)

      (b)   Explain the 4 E's of accident prevention techniques.   (8)

OR

X   (a)   List the functions of Entrepreneur.   (8)

      (b)   Write the steps involved in starting small scale industry.   (7)

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