TED (15) 5001
(Revision-2015)

A21-08704

Reg.No.....
Signature.....

DIPLOMA EXAMINATION IN ENGINEERING/ TECHNOLOGY /MANAGEMENT/ COMMERCIAL PRACTICE, APRIL-2021

INDUSTRIAL MANAGEMENT AND SAFETY

[Maximum marks: 75] (Time: 2.15 Hours)

PART – A

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

I. (1). Define incentives

(2). Define inventory

(3). List two applications of Critical Path Method

(4). List 4E's of accident prevention technique

(5). Define labour turn over (3 x 2 = 6)

PART – B

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

II. (1). Explain different types of ownerships

(2). List the objectives of quality audit

(3). Distinguish between CPM and PERT

(4). State the concept of DSIR and TBI

(5). Explain the concept of student entrepreneur

(6). Describe centralised and decentralised store

(7). Explain job Evaluation (4 x 6= 24)

PART – C

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

UNIT –I

III. (a). Explain the development of management theory of F.W.Taylor (7)

(b). Define different types of wages (8)

OR

IV. (a). State and explain different forms of business organizations (7)

(b). State and explain functions of HRM (8)

UNIT-II

V. (a). List the ten Manthras of TQM (8)

(b). List the objective of purchase department (7)

OR

VI. (a). Explain Inventory models such as EOQ and ABC (8)

(b). Explain the process of sales forecasting (7)

UNIT-III

VII. (a). The following table gives the activities in a construction project and other related Information. Draw the PERT diagram, calculate project duration, Mark critical path

Activity	Optimistic time(days) (t_o)	Normal time (most likely) (t_m)	Pessimistic time (t_p)
1-2	20	30	46
1-3	9	12	21
2-3	3	5	7
2-4	2	3	4
3-4	1	2	3
4-5	12	18	24

(10)

(b). Explain the scope of transportation problem. (5)

OR

VIII. (a). Solve the following LPP by graphical method

Maximize, $Z=5X_1+7X_2$

Subjected to the constraints,

$X_1+X_2 \leq 4$

$3X_1 + 8X_2 \leq 24$

$10X_1 + 7X_2 \leq 35$

X1,X2> 0 (10)

(b). Explain game theory. (5)

UNIT-IV

IX. (a). List the role of safety council (7)

(b). List the functions of an Entrepreneur (8)

OR

X. (a). List the causes of failure of entrepreneurial ventures (7)

(b). List the causes of accident (8)

****