



TED (15) – 5001

Reg. No.....

(REVISION — 2015)

Signature .....

DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/  
MANAGEMENT/COMMERCIAL PRACTICE — OCTOBER, 2018

INDUSTRIAL MANAGEMENT AND SAFETY

[Time : 3 hours

(Maximum marks : 100)

PART — A

(Maximum marks : 10)

Marks

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

1. List the major elements coming under the process of managing in management.
2. What does the term apprentice denote ?
3. Define quality.
4. List any two techniques used in operation research (OR) to solve optimization problems.
5. Expand the following :

(a) TBI

(b) DSIR

(5×2 = 10)

PART — B

(Maximum marks : 30)

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

1. List the advantages of training.
2. Explain the inventory models.
3. Identify the link between ISO-9001 and TQM.
4. Distinguish between CPM & PERT.
5. Explain Max min - Min max principle.
6. Define the terms :

(a) Factory

(b) Accident proness

(c) Unsafe act

7. Identify the functions of an entrepreneur.

(5×6 = 30)



PART — C

(Maximum marks : 60)

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

UNIT — I

- III (a) Explain partnership organization and Co-operative society. 8
- (b) State the functions of human resource management. 7

OR

- IV (a) Explain Henry Fayol's principles of management. 8
- (b) Define wages and list out different types of wages. 7

UNIT — II

- V (a) List the objectives of quality planning. 8
- (b) Describe the different methods of purchasing. 7

OR

- VI (a) List the elements of ISO-9000 series. 8
- (b) Describe the centralized and decentralized stores. 7

UNIT — III

- VII (a) A project consist of six activities ABCDEF with durations as shown in the table. Draw the net work diagram and mark the critical path using AOA method. 8

Activity	Dependence	Duration in days
A		8
B	A	12
C	B	10
D	B	8
E	D	6
F	C&E	6

- (b) List the various techniques used in operation research (OR) to solve optimization problems in management. 7

OR

- VIII (a) A toy company produces two products cars and guns. Each car gives a profit of ₹ 10 and each gun gives a profit of ₹ 20. The car and gun are produced through two sections S1 and S2. In section S1 each car requires one hour and gun requires 4 hours. In section S2 each car requires 5 hrs and gun requires 3 hrs. The total time available in section S1 is 30 hrs and Section S2 is 40 hrs. The company wants to maximize their profit. Formulate a linear programming model for this process. 8

- (b) Define the following terms used in project management techniques :
  - (i) Latest finish time, earliest finish time
  - (ii) Critical path, slack
  - (iii) Event
 7

UNIT — IV

- IX (a) Explain the precautions to be observed while working on hazardous environment. 8
- (b) Identify the risk taking qualities of an entrepreneur. 7

OR

- X (a) Explain the 4E's of accident prevention techniques. 8
- (b) List out the steps involved in starting a small scale industry. 7