



TED (15) – 5001

(REVISION — 2015)

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Signature

**DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/
MANAGEMENT/COMMERCIAL PRACTICE — APRIL, 2019**

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. What is meant by Sleeping Partner ?
2. Write full form of ISO and name the first ISO.
3. What is Dummy Activity ?
4. Define Accident.
5. List any two Quantitative Techniques in Management.

(5×2 = 10)

PART — B

(Maximum marks : 30)

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

1. Write similarities in the contributions of Fayols and F.W.Taylor.
2. Explain the functions of store keeping.
3. State following game has a saddle point.

$$\begin{bmatrix} 5 & 0 \\ -3 & 4 \end{bmatrix}$$

4. Describe Procedure for Registration of Small Scale Industry (SSI).
5. List six objectives of Technology Business Incubator (T B I).
6. Describe Functional organizational structure.
7. Describe basic steps involved in purchase procedure.

(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) Describe Joint stock companies. 8
(b) Briefly explain different types of training. 7

OR

- IV (a) Explain Henry Fayols principles of management. 8
(b) Calculate the earnings of the worker under Rowan Plan and Halsey Plan (50-50).
The standard time for a particular job is 10 hours and the time taken by the worker
to complete the job is 8 hours. The hourly rate is Rs. 6. 7

UNIT — II

- V (a) Draw and explain quality system documentation triangle. 8
(b) Describe Tender and Quotation. 7

OR

- VI (a) Describe Store Layout. 8
(b) Describe the different type audits in the ISO implementation. 7

UNIT — III

- VII (a) A project consists of 6 activities P, Q, R, S, T & U with a duration 4, 5, 6, 4, 3
and 6 days respectively. Draw the network diagram and mark the critical path.
The dependency of activities as shown below : use A O A method.

Activity	Dependency	Duration in Days
A	4
B	A	5
C	B	6
D	A	4
E	D	3
F	C & E	6

- (b) For the following pay off matrix of firm A, determine the optimum strategies for
the firms and the value of the game (using maximini - minimax principle)

Player A

Player B	$\begin{bmatrix} 3 & 4 & 2 \\ 5 & 7 & 3 \\ 7 & 5 & 4 \end{bmatrix}$
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OR



VIII (a) Solve the following Cost matrix Transportation problem by Vogel's Method.

Plants	W	X	Y	Capacity
P1	3	1	4	7
P2	4	5	1	6
P3	5	2	3	10
Requirement	6	9	8	

8

(b) Compare between CPM and PERT.

7

UNIT — IV

IX (a) Explain 4 E's of Accident Prevention Technique.

8

(b) What are the Functions of an Entrepreneur ?

7

OR

X (a) Explain various Accident factors.

8

(b) Describe constituents of feasibility study.

7
