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DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/ MANAGEMENT/COMMERCIAL PRACTICE — OCTOBER, 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. State the term Nominal partners.
 - 2. Define Real wages.
 - 3. Define Inventory.
 - 4. List the applications of PERT and CPM.
 - 5. Write full form of SIDBI and TBI.

 $(5 \times 2 = 10)$

PART — B

(Maximum marks: 30)

- II Answer any five of the following questions. Each question carries 6 marks.
 - 1. Explain the terms staffing and directing.
 - 2. Explain the advantages of training.
 - 3. List the benefits of ISO 9000: 2000 Company.
 - 4. Explain EOQ and ABC inventory models.
 - Differentiate between CPM and PERT.
 - Explain the precautions to be observed while working under hazardous environment.
 - 7. Write short notes on unsafe condition and unsafe act.

 $(5 \times 6 = 30)$



Marks

8

6

9

PART — C

(Maximum marks: 60)

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

Unit -- I

Write short notes on financial incentives, Non-financial incentives and semi Ш (a) 7 financial incentives. 8 Explain Line and staff organisational structure with a chart. (b) OR Compare the contributions of FW Taylor and Henry Fayol in scientific IV (a) 7 management. State the Partnership organization. Give its advantages and disadvantages. (b) UNIT --- II 7 Describe the duties and responsibilities of a store keeper. (a) Define Total Quality Management and List the Ten Manthra's for TQM. 8 (b) OR 7 Distinguish between centralised store and de-centralised store. VI (a)

Unit --- III

VII (a) A factory producing two components named A and B. It requires machining and assembly processes. The component A and B requires time and profit as follows. Formulate Linear programming solution for maximization of the profit.

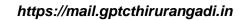
Explain the store purchasing procedure.

(b)

Process	Comp	onents	Available time
	A	В	
Machining	5	4	160
Assembling	2	5	100
Profit	30	60	

(b) A small plant assembles PCs through inter linked activities as follows. Draw an arrow diagram (network), find Critical path and the total assembly duration.

Activities	1-2	1-3	1-4	2-5	3-6	3-7	4-6	5-8	6-9	7-8	8-9
Duration	2	2	1	4	8	-5	3	1	5	4	3



Marks

6

7

8

VIII (a) Find out the basic feasible solution by least cost method and Total cost for the given transportation problem.

	D1	D2	D3	D4	Supply
S1	19	30	50	10	7
S ₂	70	30	40	60	9
S3	40	8	70	20] 18

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(b) Compute saddle point and optimal strategies for player A and player B by using max-min and mini-max principle.

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

Unit — IV

IX (a) What are the constituents of feasibility study?

(b) Explain the environmental causes of accident.

OR

X (a) Explain the procedure for registration of a small scale industry.

(b) Discuss about different accident prevention techniques 4E s.