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7645

BOARD DIPLOMA EXAMINATION, (C-20)

DECEMBER—2022

DEEE - FIFTH SEMESTER EXAMINATION

INDUSTRIAL MANAGEMENT AND SMART TECHNOLOGIES

Time : 3 hours ]

[ Total Marks : 80

**PART—A**

3×10=30

- Instructions :** (1) Answer **all** questions.  
(2) Each question carries **three** marks.  
(3) Answers should be brief and straight to the point and shall not exceed five simple sentences.

1. Define industry.
2. State different types of leadership models.
3. State any six types of purchase records.
4. Define safety stocks in materials management.
5. Define the term 'accident' with regards to safety at industry.
6. State any three causes of accidents.
7. State any six characteristics of successful entrepreneur.
8. Define quality and quality system.
9. Write a short note on PDCA cycle.
10. State any three disadvantages of IoT.

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**PART—B**

8×5=40

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- Instructions :** (1) Answer **all** questions.  
(2) Each question carries **eight** marks.  
(3) Answers should be comprehensive and criterion for valuation is the content but not the length of the answer.

**11.** (a) Explain the functions of management.

**(OR)**

(b) Explain the principles of scientific management.

**12.** (a) Define motivation and state Maslow's hierarchy needs of motivation.

**(OR)**

(b) Explain line organization and staff organization with its advantages and disadvantages.

**13.** (a) Explain break-even analysis in material management.

**(OR)**

(b) A project has following seven activities :

Activity	1-2	1-3	1-4	2-5	3-5	4-6	5-6
Expected Time (Days)	9	12	15	6	30	29	32

Calculate—

(i) draw the CPM network, (ii) identify the critical path and (iii) project duration.

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**14.** (a) Explain the method for selection of site for establishing industry.

**(OR)**

(b) Explain the concept of make in India, zero defect and zero effect in brief.

**15.** (a) Explain the important features of IoT.

**(OR)**

(b) \* Explain the use of IoT in working of smart energy system.

**PART—C**

10×1=10

- Instructions :** (1) Answer the following question.  
(2) The question carries **ten** marks.  
(3) Answer should be comprehensive and the criterion for valuation is the content but not the length of the answer.

**16.** Explain the need of stores in industries and state the uses of BIN cards at stores.

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