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**7645**

**BOARD DIPLOMA EXAMINATION, (C-20)**

**MAY/JUNE—2023**

**DEEE - FIFTH SEMESTER EXAMINATION**

INDUSTRIAL MANAGEMENT AND SMART TECHNOLOGIES

Time : 3 Hours ]

[ Total Marks : 80

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**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 the terms industry, commerce and business.
2. List the types of partners in the business.
3. State the duties of a store keeper.
4. Define the Bin card and Cardex method.
5. List the various hazards in industries.
6. List out any three types of self-employment scheme.
7. State the prevention of accidents in industries.
8. Define the term quality control and quality policy.
9. List the components of IoT.
10. Define the term TQM.

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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 line and staff organization with the aid of a neat sketch.

**(OR)**

(b) State and explain the principles of management given by Henry Fayol.

**12.** (a) Define motivation and explain Maslow's need hierarchy theory of motivation.

**(OR)**

(b) State the different qualities of a leader in the organization.

**13.** (a) Explain ABC analysis in inventory control with a graph.

**(OR)**

(b) In the table below a list of activities and their duration is given :

Activity	1-2	2-3	1-6	2-4	3-5	4-5	6-7	5-8	7-8
Duration	6	13	5	4	11	6	11	3	15

- (i) Draw the project network  
(ii) Identify the critical path  
(iii) Find the project duration

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**14.** (a) Explain the importance of EDP.

**(OR)**

(b) State the need for market survey and explain the steps involved in market survey.

**15.** (a) List the advantages and disadvantages of IoT.

**(OR)**

(b) Explain ISO standards and ISO : 9000 series of quality system.

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**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 break-even analysis with aid of chart and state the use of break-even analysis.

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