



C20-EE-501

7645

BOARD DIPLOMA EXAMINATION, (C-20)

OCTOBER/NOVEMBER—2024

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 the term management and mention the need of management. 1+2
2. List different types of organization structures. 3
3. State the importance of production planning and control. 3
4. Write any six store records used in an organization. 3
5. Mention the causes of accidents. 3
6. List some of the direct costs of accidents. 3
7. Write down the characteristics of a successful entrepreneur. 3
8. Define the term Total Quality Management (TQM). 3
9. List the pillars of TQM. 3
10. Define Internet Of Things (IOT). 3

PART—B

8×5=40

- 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) State and explain the principles of management as stated by Henry Fayol. 8

(OR)

- (b) State the levels of management and explain various managerial skills to be possessed by each level of manager. 8

- 12.** (a) State and explain Maslow's theory of motivation based on hierarchy of needs. 8

(OR)

- (b) List types of business ownership and explain cooperative type of organizations. 8

- 13.** (a) Explain break even analysis with a legible sketch. Discuss the effect of angle of incidence on profits. 6+2

(OR)

- (b) By using the given data, construct the network and find (i) critical path and (ii) expected time to build the plant. 8

Activity	1-2	2-3	3-6	2-4	1-5	5-6	4-6	5-7	7-8	6-8
Duration (Weeks)	6	4	5	8	4	7	11	9	12	3

- 14.** (a) List and explain various organizations that help an entrepreneur. 8

(OR)

- (b) Explain the demand survey and market survey. 8

- 15.** (a) Explain the concept of smart energy and explain the working of smart grid. 8

(OR)

- (b) List the key features of IOT. Briefly explain the components of IOT. 2+6

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.** Can an industry earn profits without proper planning? If your answer is no, explain the various stages of production planning and control.

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