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C16-A-AEI-CHST-CM-ECE-EEE-
GT-IT-M-PCT-PET-RAC–**501**

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BOARD DIPLOMA EXAMINATION, (C-16)

AUGUST/SEPTEMBER—2021

DAE - 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. State the managerial skills needed at various levels of management.

2. Distinguish between job description and job specification.

3. What is a fixed position layout? State its applications.

4. Define *(a)* safety stock and *(b)* re-order level.

5. List out different types of maintenances in industries.

6. What are the expectations of an entrepreneur?

7. Define 'total quality management'.

8. What are limitations of ISO 9000 series?

9. State the advantages of IoT.

10. How does an IoT work?

PART—B

10×5=50

Instructions : (1) Answer *any* **five** questions.

(2) Each question carries **ten** marks.

(3) Answers should be comprehensive and criterion for valuation is the content but not the length of the answer.

11. Explain the principles of management by Henry Fayol.

12. Explain the features of sole proprietorship with advantages and disadvantages.

13. *(a)* Explain how job analysis is done.

(b) What is plant layout? State the factors influencing the plant layout.

14. A project has nine activities, the expected time of each activity is as follows :

Activity	1–2	1–3	2–4	3–4	4–6	5–6	3–5	5–7	6–7
Expected time (days)	6	8	7	12	3	5	7	11	10

(a) Draw the project network

(b) Identify the critical path

(c) Find the project duration

15. Explain about various records used in stores.

16. Explain the various causes of accidents in industry.

17. Explain the role of small scale industries in India.

18. Describe the concepts of smart factory and smart manufacturing.

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