C16–A/AEI/CHST/CM/EC/EEE/GT/
IT/M/PCT/PET/RAC–**501**

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BOARD DIPLOMA EXAMINATION, (C–16)
OCT/NOV—2018
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. List out the functions of management.

2. List out different types of ownership in industries.

3. State the types of plant layout and explain any one of them.

4. State the functions of material management.

5. Mention the importance of safety in an industry.

6. State any six qualities of a good entrepreneur.

7. What is the need of TQM?

8. Define the term quality control.

9. List out the key features of IOT.

10. How is IOT useful nowadays?

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PART—B 10×5=50

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

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

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

11. Explain the principles of scientific management, stated by F. W. Taylor.

12. Explain the objectives and advantages of cooperatives.

13. *(a)* Explain the process of decision making.
   (b) Explain about routing and scheduling.

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.
(d) What is the slack at each activity?

15. Explain ABC analysis in inventory control with a graph.

16. Explain various direct and indirect losses of accidents.

17. Explain market and demand surveys.

18. Explain the concept of smart city with a neat sketch.

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