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

**6601**

**BOARD DIPLOMA EXAMINATION, (C-16)**

**OCT/NOV—2018**

**DAE—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. 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.

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6. State any six <sup>\*</sup> 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?

**PART—B**

10×5=50

**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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**6601**  
**BOARD DIPLOMA EXAMINATION**  
**MARCH/APRIL - 2019**  
**DIPLOMA IN AUTOMOBILE ENGINEERING**  
**INDUSTRIAL MANAGEMENT & SMART TECHNOLOGIES**  
**FIFTH SEMESTER EXAMINATION**

**Time: 3 Hours**

**Total Marks: 80**

**PART - A (3m x 10 = 30m)**

*Note 1: Answer all questions and each question carries 3 marks*

*2: Answers should be brief and straight to the point and shall not exceed 5 simple sentences*

1. **State the importance of managerial skills.**
2. **State the behavioral theory of leadership.**
3. **List out advantages of planning.**
4. **List out the applications of RFID in materials management.**
5. **State the importance of maintenance management?**
6. **State the role of Entrepreneur?**
7. **List out ISO 9000 series**
8. **What is meant by PDCA cycle?**
9. **List out key features of IoT**
10. **State the features of smart building**

**PART - B (10m x 5 = 50m)**

*Note 1: Answer any five questions and each carries 10 marks*

*2: The answers should be comprehensive and the criteria for valuation is the content but not the length of the answer*

11. **State the principles of Management given by Henry Fayol and explain it**
12. **Explain the process of Decision making**
13. **Explain the factors to be considered for a plant location**
- 14A. **Differentiate Delegation and Decentralization**
- B. **Write the rules to draw network diagrams.**
15. **Explain ABC analysis through graphical illustration .**

16. Explain the various Industrial hazards.
17. Explain the various Entrepreneurial Development schemes.
18. Explain the concept of smart cities with a neat sketch.

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**6601**  
**BOARD DIPLOMA EXAMINATION**  
**JUNE - 2019**  
**DIPLOMA IN AUTOMOBILE ENGINEERING**  
**INDUSTRIAL MANAGEMENT & SMART TECHNOLOGIES**  
**FIFTH SEMESTER EXAMINATION**

**Time: 3 Hours**

**Total Marks: 80**

**PART - A (3m x 10 = 30m)**

*Note 1: Answer all questions and each question carries 3 marks*

*2: Answers should be brief and straight to the point and shall not exceed 5 simple sentences*

1. **List out levels of Management**
2. **State the behavioral theory of leadership?**
3. **State the functions of Routing**
4. **Define safety stock, Reorder level**
5. **List out the different types of maintenance.**
6. **What is meant by Zero defect.**
7. **List out ISO 9000 series**
8. **List out any six beneficiary organizations of ISO 9000.**
9. **List out the components of IoT**
10. **State the features of smart building**

**\* PART - B (10m x 5 = 50m)**

*Note 1: Answer any five questions and each carries 10 marks*

*2: The answers should be comprehensive and the criteria for valuation is the content but not the length of the answer*

11. **Explain the principles of scientific management.**
12. **Explain Line organization structure.**
13. **Explain Break–Even analysis using graphical illustration.**
- 14A. **Explain partnership ownership business.**
- B. **Explain route and operation sheet**

15. Explain various purchasing procedures?
16. Explain the causes of industrial accidents in industry
17. Explain the role of SSI, MSME, DICs in the support of the Entrepreneurs.
18. Describe the working of smart energy and smart grid

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C16-A/AEI/CHST/CM/ECE/EEE  
/GT/IT/M/PCT/PET/RAC-501  
**MET/CH/CHOT/CHPC/CHPP-701**  
**6601**

**BOARD DIPLOMA EXAMINATIONS**

**OCT/NOV-2019**

**DAE – FIFTH SEMESTER**

**INDUSTRIAL MANAGEMENT AND SMART TECHNOLOGIES**

Time: 3 hours

Max. Marks: 80

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**PART – A**

**3 X 10 = 30**

**Instructions:** 1. Answer *all* questions.  
2. Each question carries **Three** Marks.  
3. Answer should be brief and straight to the point and should not exceed Five simple sentences.

1. List out functions of management?
2. What is motivation? Mention few important theories of motivation.
3. List out the objectives of production planning and control.
- \* 4. Define the term “Inventory Control”.
5. List out the cause of accidents in an industry.
6. What are the expectations of an entrepreneur?
7. Define the term quality management.
8. State the features of ISO 9000.
9. Define the term IoT and its uses.
10. List out the various IoT applications.

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**PART – B**

**5 X 10 = 50**

**Instructions:** 1. Answer any **Five** questions  
2. Each question carries **TEN** Marks.  
3. Answer should be comprehensive and Criteria for Valuation is the content but not the length of the answer.

- 11. Explain principles of management stated by Henry Foyal.
- 12. Explain about job analysis.
- 13. a) List out various departments that exist in large scale industry.  
b) Explain “Break even analysis” as referred to industry.

14. A project has nine activities. The expected time of each activity is as follows.

Activity	1-2	1-3	2-4	2-5	3-5	3-6	4-7	5-7	6-7
Expected time in days	6	4	8	5	9	4	1	5	2

- (a) Draw the project network.
- (b) Identify the critical path.
- (c) Find the project duration.

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- 15. Explain various records used in stores.
- 16. Write classification of solid wastes.
- 17. Explain different types of self-employment schemes.
- 18. Explain the smart energy and smart grid with a neat sketch.

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

**6601**

**BOARD DIPLOMA EXAMINATION, (C-16)  
NOVEMBER—2020  
DAE—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 out any six advantages of sole proprietorship.
3. State the need of planning with its advantages.
4. Define safety stock.
5. List out different hazards in industries.
6. What is a self-employment scheme?
7. State the principles of quality assurance.
8. Define the term quality control.
9. List the advantages of IoT.
10. What is a smart city?

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**PART—B**

10×5=50

- Instructions :** (1) Answer *any five* questions.  
(2) Each question carries **ten** marks.  
(3) Answers should be comprehensive and the criteria for valuation are the content but not the length of the answer.

11. Explain the principles of scientific management.
12. Define motivation and explain Maslow's hierarchy of needs theory.
13. Explain break even analysis with aid of chart.
14. (a) State the advantages and disadvantages of joint stock company.  
(b) Define the terms routing and dispatching.
15. Explain ABC analysis in inventory control with a graph.
16. Explain the 5s principles for good housekeeping.
17. Explain market survey and demand survey.
18. Explain smart energy and the smart grid with a neat sketch.

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

**6601**

**BOARD DIPLOMA EXAMINATION, (C-16)**

**MARCH/APRIL—2021**

**DME - 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. Distinguish between administration and management.
2. Define job description and job specification.
3. What are the advantages of PPC?
4. State the duties of a store keeper.
5. List out different hazards in industries.
6. What are the expectations of an entrepreneur?
7. List the beneficiaries of ISO 9000.
8. Mention brief concept of quality.
9. List out the key features of IoT.
10. List out the various IoT applications.

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**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. State the principles of management as listed out by Henry Fayol. Explain them.

12. State and explain Maslow's need hierarchy theory of motivation.

13. (a) What is meant by communication? Explain briefly the process of communication.

(b) Distinguish between PERT and CPM.

14. What is break-even analysis? Illustrate graphically the concept of break-even point.

15. (a) What is economic order quantity? Derive an expression for economic order quantity with reference to deterministic model assuming no shortages.

(b) Annual consumption of a certain product is 36,000 units. The ordering cost is ₹ 25 and cost per unit is ₹ 1. If the inventory carrying cost is 20% per annum, find the economic order quantity.

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16. Explain the various direct and indirect losses of accidents.

17. What is the need for market survey? How is it conducted?

18. Explain smart energy and the smart grid with a neat sketch.

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