

C16-AEI/CHST/EC/GT/M/RAC-501

6679

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

**SEPTEMBER/OCTOBER-2020**

**DME—FIFTH SEMESTER**

**INDUSTRIAL MANAGEMENT & SMART TECHNOLOGIES**

Time : 3 hours ]

[ Total Marks : 80

**PART – A**

**3x10 = 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. Define the terms Business, Industry and Commerce.
2. What is Motivation? Mention a few important theories of motivation.
3. What are the objectives of planning in industry?
4. Define the terms (i) Bin card (ii) Cardex method.
5. What are the objectives of safety in an industrial situation?
6. What is market survey? Why is it conducted?
7. What are the limitations of ISO 9000 series?
8. Define the terms: (a) Quality Control (b) Quality Assurance.
9. List out the various components of IoT.
10. List out the hardware devices of IoT.

**PART – B**

**10x5 = 50**

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 functions of Management.
12. Explain the partnership organization and state its advantages and disadvantages.
13. (a) Briefly explain about communication process with a neat sketch.  
(b) Name the types of plant layout. Explain any one plant layout with the aid of sketch.
14. In the given below, a list of activities and their duration is given:
- i. Prepare the network
  - ii. Identify critical path and
  - iii. Calculate the project completion time

ACTIVITY	1-2	1-3	1-4	2-5	3-6	3-7	4-6	5-7	6-7	6-8	7-8
DURATION	6	4	1	5	8	9	3	1	0	8	2

- \* 15. A manufacturer of electrical motors is required to purchase 2400 castings per year. The ordering cost is Rs.100 per order and inventory carrying cost is Rs.24% per year. The price of each unit is Rs.10. Find out (a) What should be the ordering quantity? (b) No. of orders per year (c) Total stocking cost (d) Order interval, when the working days/year are 300.
16. Discuss various provisions given measures in the Factories Act.
17. Explain the role of small scale industries in India.
18. Describe the concept of Smart Factory and Smart Manufacturing.

A.A.N.M & V.V.R.S.R POLYTEHNIC, GUDLAVALLERU, KRISHNA DIST., A.P

\*

\*