

**C-23-EE-501**  
**BOARD DIPLOMA EXAMINATION, (C-23)**  
**DEEE – FIFTH SEMESTER EXAMINATION**  
**EE-501 : INDUSTRIAL MANAGEMENT AND SMART TECHNOLOGIES**

Time: 90 Minutes

Total Marks: 40

---

**PART-A**

**(1 x 4) + (4 x 3) = 16**

**Instructions:**

- i. Answer all five questions.**
- ii. First question carries four marks and remaining each question carries three marks.**
- iii. Answers should be brief and straight to the point and shall not exceed five simple sentences**

1. Define the terms (a) Industry (b) Business (c) Management (d) Commerce. (CO1)
2. List the advantages of line organization. (CO1)
3. State the functions of material management (CO2)
4. List different types of business ownerships.
5. List out any four difference between PERT and CPM (CO2)

**PART-B**

**3 X 8 = 24**

**Instructions:**

- i. Answer all three questions.**
- ii. Each question carries eight marks.**
- iii. The answers should be comprehensive and the criteria for valuation are the content but not the length of the answer.**

1. (a) Explain the types of business ownerships. (CO1)  
(OR)  
(b) State the principles of scientific management. (CO1)
2. (a) Explain the different process of recruitments. (CO1)  
(OR)  
(b) State the advantages and disadvantages staff organization. (CO1)
3. (a) Explain break-even analysis. (CO2)  
(OR)

(b)

A Project has following activities. The expected time for each activity is also given below

- i) Draw the project network ii) Identify the critical path iii) Find the project duration iv) slack

(CO2)

S. NO	1	2	3	4	5	6	7	8
Activity	1-2	1-3	1-4	2-4	2-5	3-6	4-6	5-6
Duration in days	6	8	5	3	5	12	8	6

**MODEL PAPER – FORMATIVE ASSESSMENT-2**  
BOARD DIPLOMA EXAMINATION, (C-23)  
DEEE – FIFTH SEMESTER EXAMINATION  
**EE-501 : INDUSTRIAL MANAGEMENT & SMART TECHNOLOGIES**

**Time: 90 Minutes**

**Total Marks: 40**

---

**PART-A**

**(1 x 4) + (4 x 3) = 16**

**Instructions:**

- i. Answer all **five** questions.
- ii. First question carries **four** marks and remaining each question carries **three** marks.
- iii. Answers should be brief and straight to the point and shall not exceed five simple sentences

1. (a) Define Entrepreneur.  
(b) TQM stands for \_\_\_\_\_  
(c) Define Quality system.  
(d) Define IoT ( Internet of Thing) (CO3, CO4,CO4,CO5)
2. List out the organisations that help an entrepreneur. (CO3)
3. State the requirements of Entrepreneur. (CO3)
4. List the beneficiaries of ISO 9000. (CO4)
5. Write short notes of SMART transportation system using IoT. (CO5)

**PART-B**

**3 X 8 = 24**

**Instructions:**

- i. Answer all **three** questions.
  - ii. Each question carries **eight** marks.
  - iii. The answers should be comprehensive and the criteria for valuation are the content but not the length of the answer.
- 
6. (a) Explain the role of entrepreneur in national development (CO3)

(or)

(b) Explain any two self employment schemes (CO3)

7. (a) What is quality system and also explain various elements of quality system

(CO4)

(or)

(b) Explain ISO standards and ISO 9000 series of quality system. (CO4)

8. (a) List the advantages and disadvantages of IoT. (CO5)

(or)

(b) Explain the application of SMART Energy system . (CO5)

**MODEL PAPER – SUMMATIVE EXAMINATION**

**C-23-EE-501**

**BOARD DIPLOMA EXAMINATION, (C-23)**

**DEEE – FIFTH SEMESTER EXAMINATION**

**EE-501 : INDUSTRIAL MANAGEMENT AND SMART TECHNOLOGIES**

Time: 3 hours

Total marks: 80

---

**PART-A**

**10 X 3 = 30**

**Instructions:**

- i. **Answer all questions.**
- ii. **Each question carries three marks.**
- iii. **Answers should be brief and straight to the point and shall not exceed five simple sentences**

1. Define Industry and Business. (CO1)
2. State the advantages of line organization. (CO1)
3. State Traits theory of leader ship (CO1)
4. State the functions of material management. (CO2)
5. State the causes of accidents in industries. (CO2)
6. . State the requirements of Entrepreneur (CO3)
7. State the characteristics of successful entrepreneur. (CO3)

8. Define quality and quality system. (CO4)
9. List the beneficiary companies of ISO 9000. (CO4)
10. List the components of IoT. (CO5)

#### PART-B

**5 X 10 = 50**

#### **Instructions:**

- i. **Answer any five questions.**
- ii. **Each question carries 10 marks.**
- iii. **The answers should be comprehensive and the criteria for valuation are the content but not the length of the answer.**

11. Explain the principles of management. (CO1)
12. Explain the advantages and disadvantages of line and staff organization. (CO1)
13. Explain the ABC analysis in material management. (CO2)
- 14 . For a certain project the data is given below (CO2)

S.No.	1	2	3	4	5	6	7	8
Activity	1-2	1-3	1-4	2-4	2-5	3-6	4-6	5-6
Duration (months)	6	8	5	3	5	12	8	6

\*

- (i) Draw the network diagram.
- (ii) Identify the critical path.
- (iii) Find the project duration

- 15 Explain any two self employment schemes. (CO3)
- 16 Explain ISO standards and ISO 9000 series of quality system (CO4)
- 17 Explain the application of IoT in smart home. (CO5)
- 18 Explain the application of smart energy system. (CO5)