

**SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR**  
(AUTONOMOUS)

B.Tech III Year II Semester Supplementary Examinations May/June-2024

**INDUSTRIAL ENGINEERING & MANAGEMENT**

(Mechanical Engineering)

**Time: 3 Hours**

**Max. Marks: 60**

**PART-A**

(Answer all the Questions 5 x 2 = 10 Marks)

- |   |   |   |     |    |    |
|---|---|---|-----|----|----|
| 1 | a | How an accountability is important for an Organization. | CO2 | L1 | 2M |
|   | b | Define Material Handling system.                        | CO2 | L1 | 2M |
|   | c | List objectives of method study.                        | CO4 | L1 | 2M |
|   | d | Classify the types Markets.                             | CO5 | L2 | 2M |
|   | e | Summarize the merits of Internal Rate of Return.        | CO6 | L2 | 2M |

**PART-B**

(Answer all Five Units 5 x 10 = 50 Marks)

**UNIT-I**

- |   |   |  |     |    |    |
|---|---|--|-----|----|----|
| 2 | a | Summarize the important characteristics of management.                   | CO1 | L2 | 5M |
|   | b | Name and describe the various levels of management with their functions. | CO1 | L1 | 5M |

**OR**

- |   |  |                                      |     |    |     |
|---|--|--------------------------------------|-----|----|-----|
| 3 |  | Explain the process of organization. | CO2 | L2 | 10M |
|---|--|--------------------------------------|-----|----|-----|

**UNIT-II**

- |   |  |  |     |         |     |
|---|--|--|-----|---------|-----|
| 4 |  | What are the factors governing the plant location. Explain with any one specific industry. | CO2 | L1 & L2 | 10M |
|---|--|--|-----|---------|-----|

**OR**

- |   |  |  |     |         |     |
|---|--|--|-----|---------|-----|
| 5 |  | What are the various data analyzing forms in plant layout? Explain them in detail. | CO2 | L1 & L5 | 10M |
|---|--|--|-----|---------|-----|

**UNIT-III**

- |   |   |  |     |    |    |
|---|---|--|-----|----|----|
| 6 | a | Discuss the SIMO chart with an example           | CO4 | L6 | 5M |
|   | b | What is therblings? List the table with details. | CO4 | L1 | 5M |

**OR**

- |   |  |   |     |         |     |
|---|--|---|-----|---------|-----|
| 7 |  | What measurements are to be done in a stop watch time study? Discuss briefly how they are done? | CO4 | L1 & L6 | 10M |
|---|--|---|-----|---------|-----|

**UNIT-IV**

- |   |  |  |     |    |     |
|---|--|--|-----|----|-----|
| 8 |  | What do you mean by elasticity of demand? What are the factors governing the elasticity of demand. | CO5 | L1 | 10M |
|---|--|--|-----|----|-----|

**OR**

- |   |  |   |     |    |     |
|---|--|---|-----|----|-----|
| 9 |  | Explain briefly statistical methods of forecasting.<br>(i) Regression method (ii) Trend projection method | CO5 | L5 | 10M |
|---|--|---|-----|----|-----|

**UNIT-V**

- |    |   |   |     |    |    |
|----|---|---|-----|----|----|
| 10 | a | Discuss in detail about accounting rate of return method. Also list its merits and demerits.  | CO6 | L6 | 6M |
|    | b | Determine the average rate of return on investment for a project requires an investment of Rs.5,00,000 and has a scrap value of Rs.20,000 after 5 years. It is expected to yield profit after depreciation and taxes during the five years amounting Rs.40,000, Rs.60,000, Rs.70,000, Rs.50,000, Rs.20,000. | CO6 | L5 | 4M |

**OR**

- |    |  |   |     |    |     |
|----|--|---|-----|----|-----|
| 11 |  | Define balance sheet and prepare a sample format for balance sheet with suitable example. | CO6 | L5 | 10M |
|----|--|---|-----|----|-----|

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