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Total Pages : 03

**J-21-0158**

**B. Tech. EXAMINATION, 2021**

Semester VII (CBCS)

INDUSTRIAL ENGINEERING AND PRODUCTION  
MANAGEMENT

ME-704

*Time : 2 Hours*

*Maximum Marks : 60*

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*The candidates shall limit their answers precisely within 20 pages only (A4 size sheets/assignment sheets), no extra sheet allowed. The candidates should write only on one side of the page and the back side of the page should remain blank. Only blue ball pen is admissible.*

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**Note :** Attempt *Four* questions in all, selecting *one* question from any of the Sections A, B, C and D.  
Q. No. 9 is compulsory.

**Section A**

1. (a) What factors govern the Recruitment in an organization ? List the merits and demerits of Job Analysis. 7.5

- (b) Explain the principles of management. What are the basic functions of management ? 7.5
2. (a) What do you mean by Organizational Behaviour? Discuss the importance and objectives of HRM. 7.5
- (b) Briefly narrate the social responsibility of Engineers in the Industry. 7.5

### Section B

3. Explain the term method study in full detail. Brief the objective of method study. 15
4. How do incentives motivate the industrial workers? Justify the statement. Also explain the various methods of wage payment. 15

### Section C

5. (a) Explain the term statics of rigid bodies in full detail with suitable examples. 7.5
- (b) Discuss the bio-thermodynamics and bio-energetics. 7.5
6. What do you mean by the marketing feasibility analysis? Discuss the long-range forecast and short range forecast. 15

### Section D

7. Explain the various factors which affect the location decisions in case of plant location. 15
8. Describe the Inventory models. Also go for mathematical derivations involved in different Inventory models. 15

### (Compulsory Question)

9. Explain the following :
- (i) Reorder point and Safety stock in Inventory
  - (ii) Service facility layout
  - (iii) Organization Chart
  - (iv) Role of Leadership
  - (v) Bio-thermodynamics and Bio-energetics
  - (vi) Differentiate Productivity and Work study.
  - (vii) Various wage incentive plans
  - (viii) Cyclograph and chronograph
  - (ix) SIMO Chart
  - (x) What do you mean by forecast accuracy? Explain the long range forecast and short range forecast. 1.5×10=15