

Dec-25-0282

ME-704 (Industrial Engineering & Production Management)

B.Tech. 7th (CBCS)

Time : 3 Hours

Max. Marks : 60

The candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary/continuation sheet will be issued.

**Note :** Attempt five Questions in all sections, selecting one question each from section A, B, C and D. Section E is compulsory.

**SECTION - A**

1. (a) What are the objectives of an Organization? Discuss the importance and principles of Organization. (5)
- (b) Compare line and staff organizations. Discuss their suitability. (5)
2. Discuss principles of management. What are the basic functions of management? Discuss all functions in detail. (10)

**SECTION - B**

3. Write a note on following:
  - (a) Chrono-cyclo-graph (2x5=10)
  - (b) SIMO Chart (2x5=10)
4. Write a note on following:
  - (a) Wages and Incentives
  - (b) Methods of Job evaluation (2x5=10)

**SECTION - C**

5. Write a note on following:
  - (a) Biostatic Mechanics
  - (b) Human body kinematics (2x5=10)
6. Write a note on following:
  - (a) TAM related to 'MARKETING FEASIBILITY ANALYSIS'
  - (b) SAM related to 'MARKETING FEASIBILITY ANALYSIS' (2x5=10)

**SECTION - D**

7. (a) Discuss briefly the functions of Production Planning and Control. Differentiate between loading and scheduling. (5)
- (b) Compare and discuss the functioning of centralized and decentralized dispatching in a toy manufacturing plant. (5)
8. (a) What are the objectives of Inventory Control? What type of cost has to be considered in controlling inventory? (5)
- (b) What is Economic Lot Size? Develop the relations for economic lot size when there is shortage and zero lead time. (5)

**SECTION - E (Compulsory)**

9. (i) What is Warehouse location problem?
- (ii) Discuss Authority and Responsibility of HR department in organization.

- (iii) Discuss the Micro Motion Study.
- (iv) Write the applications of Ergonomics in product design.
- (v) How is the Industrial Engineering & Production Management interrelated?
- (vi) Discuss the term PMTS.
- (vii) Discuss the components of Marketing feasibility analysis.
- (viii) Define the term '*Human Body Kinematics*'.
- (ix) Discuss the long term Forecasting Techniques.
- (x) Discuss Allowances used in Time Study to calculate the Standard Time. (10×2=20)