

**B.Tech. Degree VI Semester Regular/Supplementary Examination in  
Marine Engineering April 2021**

**MRE 1601 MANAGEMENT SCIENCE  
(2013 Scheme)**

Time: 3 Hours

Maximum Marks: 100

(5 × 20 = 100)

- I. (a) Elaborate the logical steps involved in the process of organization. (10)  
(b) Explain the important principles of an efficient organization. (10)
- OR**
- II. (a) Describe the following organization structures with their advantages and disadvantages: (10)  
(i) Line Organization  
(ii) Line and staff organization  
(iii) Matrix organization  
(b) Elaborate the various levels of management with their main functions. (10)
- III. (a) What are managerial skills? Enumerate different skills in action. (10)  
(b) Elaborate the Principles of scientific management. (10)
- OR**
- IV. (a) Describe the various functions of management. (10)  
(b) Explain the principles of personnel management. (10)
- V. (a) Brief the different functions of PPC. (10)  
(b) Why location of a plant is important? Give five reasons in detail. (10)
- OR**
- VI. (a) Describe all types of plant layout with their advantages and disadvantages. (10)  
(b) Explain balance sheet and Profit and loss account of a manufacturing plant. What are their importances? (10)
- VII. (a) Elaborate on financial ratios and their importance. Explain the following: (10)  
(i) Liquidity ratios  
(ii) Leverage ratios  
(iii) Activity ratios  
(iv) Profitability ratios  
(b) Which are the different methods of production? Describe each in detail with their advantages and disadvantages. (10)
- OR**
- VIII. (a) Discuss inventory and inventory control. Describe any three types of inventory control. (10)  
(b) Describe sales forecasting. Explain why it is important. (10)

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- IX. (a) Enumerate how decision making is important. Explain. (10)
    - (i) Decision making under certainty
    - (ii) Decision making under risk
    - (iii) Decision making under uncertainty
  - (b) Differentiate job evaluation and merit rating. Explain the benefits and objectives of merit rating (10)
- OR**
- X. (a) Explain Management by Objectives (MBO). What are its advantages and limitations? (10)
  - (b) Describe the objectives of trade unions. Discuss the objectives of worker's participation in management. (10)

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