Code No:**R1642052** **R16** **Set No. 1**

**IV B.Tech II Semester Regular Examinations, September - 2020**

**MANAGEMENT SCIENCE**

**(Common to Computer Science and Engineering and Information Technology)**

**Time: 3 hours** **Max. Marks: 70**

***Question paper consists of Part-A and Part-B***

***Answer ALL sub questions from Part-A***

***Answer any FOUR questions from Part-B***

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## PART–A *(14 Marks)*

1. a) Define Nature of Management? [2]
   b) Briefly write about decision making process. [2]
   c) Define merit rating. [3]
   d) How can you calculate slack and float? [2]
   e) Define Goal and Mission. [2]
   f) What is bench marking? [3]

## PART–B *(4x14 = 56 Marks)*

2. Explain different types of organizations structures with examples. [14]

3. a) Briefly explain the function of operation management. [7]
   b) The following information is about the shock absorbers used by an automobile workshop:
   Annual demand: 4800 units
   Unit price: Rs 300
   Cost of placing an order : Rs 50
   Storage cost : 3% PA
   Interest rate: 15% PA
   Calculate EOQ and also and find the number of orders to be placed? [7]

4. a) Differentiate between the human resource management and human resource development. [7]
   b) Define production life cycle. Explain various strategies used at different stages. [7]

5. a) Compare PERT and CPM. [7]
   b) What is meant by project crashing? Explain with example. [7]

6. a) Discuss the steps in strategy formulation and implementation. [8]
   b) Explain SWOT analysis. [6]

7. List the various methods of Total Quality Management (TQM)? Explain any two methods in detail. [14]



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Code No:**R1642052** **R16** **Set No. 2**

**IV B.Tech II Semester Regular Examinations, September– 2020**

# MANAGEMENT SCIENCE

**(Common to Computer Science and Engineering and Information Technology)**

**Time: 3 hours** **Max. Marks: 70**

***Question paper consists of Part-A and Part-B***
***Answer ALL sub questions from Part-A***
***Answer any FOUR questions from Part-B***
*****

## PART–A*(14 Marks)*

| | | | |
|---|---|---|---|
| 1. | a) | What is Organization structure. | [2] |
| | b) | Define VED analysis. | [3] |
| | c) | Define PMIR. | [3] |
| | d) | What is critical path. | [2] |
| | e) | What are the Goals of an organization? | [2] |
| | f) | What is Balance Score Card? | [2] |

## PART–B*(4x14 = 56 Marks)*

| | | | |
|---|---|---|---|
| 2. | | Write about the Henry Fayol's principles of management in detail. | [14] |
| 3. | a) | What is work study? Explain basic procedure involved work study and work measurement. | [7] |
| | b) | Describe ABC Analysis in detail. | [7] |
| 4. | | Define merit rating and explain the methods of merit rating along with merits and demerits. | [14] |
| 5. | a) | Discuss the importance CPM and PERT in project management. | [7] |
| | b) | Illustrate the procedure of project crashing with an example. | [7] |
| 6. | | Describe the role of environmental scanning evaluation in modern business organizations. | [14] |
| 7. | | Write short notes on the following:<br>i)Supply chain management ii) Business process outsourcing. | [14] |



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Code No:**R1642052** **R16** **Set No. 3**

**IV B.Tech II Semester Regular Examinations, September - 2020**

# MANAGEMENT SCIENCE

**(Common to Computer Science and Engineering and Information Technology)**

**Time: 3 hours** **Max. Marks: 70**

***Question paper consists of Part-A and Part-B***
***Answer ALL sub questions from Part-A***
***Answer any FOUR questions from Part-B***
*********

## PART–A *(14 Marks)*

1. a) Write the functions of Management. [2]
   b) What are the objectives of inventory control? [3]
   c) What is job evaluation? [3]
   d) What is project crashing? [2]
   e) Define strategic management. [2]
   f) What is business process re-engineering? [2]

## PART–B *(4x14 = 56 Marks)*

2. a) Define management? Explain its characteristics and importance. [7]
   b) Explain the significance of global leadership. [7]

3. a) Discuss the need for Inventory control and how the management will control the inventory in an organization. [7]
   b) Construct X and R charts for the following information

| **Sample** | **1** | **2** | **3** | **4** | **5** | **6** | **7** |
|---|---|---|---|---|---|---|---|
| **X** | 20 | 46 | 34 | 15 | 54 | 60 | 22 |
| **Y** | 16 | 44 | 22 | 38 | 58 | 77 | 33 |

[7]

4. a) Discuss the concept of job analysis. [7]
   b) What are the factors that determine the choice of channels of distribution? Explain. [7]

5. a) What are the major limitations of PERT model? Discuss solution to overcome those limitations. [7]
   b) Describe critical path method with example. [7]

6. Discuss elements of corporate planning process with a neat sketch. [14]

7. Write a brief note on [14]
   i) Just-In-Time
   ii) MRP
   iii) Six Sigma
   iv) MIS



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Code No:**R1642052** **R16** **Set No. 4**

**IV B.Tech II Semester Regular Examinations, September - 2020**

# MANAGEMENT SCIENCE

**(Common to Computer Science and Engineering and Information Technology)**

**Time: 3 hours** **Max. Marks: 70**

***Question paper consists of Part-A and Part-B***

***Answer ALL sub questions from Part-A***

***Answer any FOUR questions from Part-B***

*****

## PART–A *(14 Marks)*

1. a) List the principles of organization. [2]
   b) Write the formula for R-chart. [3]
   c) List the methods of Job evaluation. [3]
   d) Define Critical path. [2]
   e) What are the limitations of SWOT analysis? [2]
   f) Write the basic concept of JIT. [2]

## PART–B *(4x14 = 56 Marks)*

2. Discuss Herzberg's Two-Factor Theory of Motivation also write its limitations. [14]

3. What is Inventory Control? Explain different methods of inventory control. [14]

4. a) Describe the functions of HR manager in an industry. [7]
   b) With an example, explain various methods of wage payments. [7]

5. Consider the following schedule of activities and related information for construction of new plant [14]

| Activity | 1-2 | 2-3 | 3-6 | 2-4 | 1-5 | 5-6 | 4-6 | 5-7 | 7-8 | 6-8 |
|---|---|---|---|---|---|---|---|---|---|---|
| Expected time in months | 6 | 3 | 4 | 8 | 2 | 5 | 9 | 7 | 12 | 2 |

   i.Construct the network diagram
   ii. Find out the critical path
   iii. Expected time to build the plant.

6. a) Explain Steps in Strategy Formulation and Implementation [7]
   b) Discuss about the Generic Strategy alternatives. [7]

7. Describe six sigma and capability maturity model (CMM) in detail. [14]



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