

**III B. Tech I Semester Regular/Supplementary Examinations, March – 2021****MANAGEMENT SCIENCE**

(Common to Civil Engineering, Petroleum Engineering)

Time: 3 hours

Max. Marks: 70

Note: 1. Question Paper consists of two parts (**Part-A** and **Part-B**)2. Answer **ALL** the question in **Part-A**3. Answer any **FOUR** Questions from **Part-B****PART –A****(14 Marks)**

1. a) Principles of Organization [2M]
- b) Control Charts [2M]
- c) Importance of HRD [2M]
- d) Project Crashing [3M]
- e) Mission [3M]
- f) Just-in-Time System [2M]

**PART –B****(56 Marks)**

2. a) Explain the contribution of F.W. Taylor in the area of scientific management to modern managers. [7M]
- b) Explain the Abraham Maslow's hierarchy of human needs. [7M]
3. a) Define method Study? State and explain the steps involved in method study procedure. [7M]
- b) What do you understand by Economic Order Quantity? Derive the formula for determining the Economic Order Quantity. [7M]
4. a) Discuss in detail the functions of human resource management. [7M]
- b) Explain Halsey plan of wage incentive scheme and what are the advantages and disadvantages? [7M]
5. a) What are the applications of Networks? Explain. [7M]
- b) A Project consists of the following activities whose time estimates are given below: [7M]

Activity	$t_o$	$t_m$	$t_p$
1 - 2	1	1	7
1 - 3	1	4	7
1 - 4	2	2	8
2 - 5	1	1	1
3 - 5	2	5	14
4 - 6	2	5	8
5 - 6	3	6	15

Draw the PERT Network and find out the Project completion time.

6. a) What is Corporate Strategy planning process? Why this is important for long-term success of any business Organization? [7M]
- b) Explain various generic strategy alternatives in detail. [7M]
7. a) What is supply chain management? Describe its functions and characteristics. [7M]
- b) Explain the levels of Capability Maturity Model(CMM). [7M]

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**PART –A****(14 Marks)**

1. a) Importance of Management. [2M]
- b) What are the Objectives of Operations Management? [2M]
- c) Marketing Management. [2M]
- d) Define the term Slack and Float. [3M]
- e) Strategy. [2M]
- f) Capability Maturity Model. [3M]

**PART –B****(56 Marks)**

2. a) What is decision making? Explain the various steps involved in decision making process? [7M]
- b) Explain theory-X and theory-Y as theories of motivation. [7M]
3. a) Briefly explain the determination of range chart. [7M]
- b) Explain about work study. Enlist the various application of work study. [7M]
4. a) What are the functions of Personnel Manager in a large manufacturing organization? [7M]
- b) Explain the different stages in Product Life Cycle? [7M]
5. a) Distinguish between Total Float, Free Float and Independent Float. [7M]
- b) The following table gives the activities of a project. Indirect Cost is Rs 2600. Find the minimum duration of the Project. [7M]

Activity	Normal Time	Normal Cost	Crash Time	Crash Cost
1 - 2	9	16,000	7	20,000
1 - 3	5	10,000	3	16,000
2 - 3	7	14,000	5	17,200
2 - 4	8	12,000	6	14,000
3 - 4	6	18,000	4	22,800

6. a) State the Significance of Corporate Planning with appropriate examples. [7M]
- b) Why Environmental Scanning is important in Strategy development? Explain. [7M]
7. a) Explain advantages and limitations of Enterprise Resource Planning. [7M]
- b) What is TQM? Explain its significance in present day Context. [7M]

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**PART –A****(14 Marks)**

1. a) Organizational Typology. [2M]
- b) Types of Management. [2M]
- c) Concept of HRM. [2M]
- d) Critical Path. [3M]
- e) Goals. [3M]
- f) Bench marking. [2M]

**PART –B****(56 Marks)**

2. a) What do you understand by decentralization? Explain its merits and demerits. [7M]
- b) Explain Henry Fayol's Principles of Management. [7M]
3. a) What is the need for inventory Control at different stages of Production? [7M]
- b) Explain the Procedure for Constructing x bar Chart. [7M]
4. a) List out the factors influencing the wage fixation. [7M]
- b) What do you mean by marketing? How is it different from selling? [7M]
5. a) Briefly explain the differences between PERT and CPM. [7M]
- b) From the following information: [7M]
  - i) Draw the network; ii) Find its critical Path and Project duration.

Activity	1 - 2	1 - 3	2 - 4	3 - 4	4 - 5	4 - 6	5 - 7	6 - 7	7 - 8
Duration	5	4	6	2	1	7	8	4	3

6. a) Explain various steps in Strategy Formulation. [7M]
- b) Briefly explain the Concept of SWOT Analysis. [7M]
7. a) What are the specific benefits of a well designed Management Information System? [7M]
- b) Describe the process of Six Sigma in an Organization. [7M]

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1. a) Global Leadership. [2M]
- b) FSN Analysis. [2M]
- c) Explain PMIR. [2M]
- d) Variance. [3M]
- e) Vision. [2M]
- f) Business process Re-Engineering. [3M]

**PART –B****(56 Marks)**

2. a) Define management. Explain the functions of management. [7M]
- b) Explain the factors to be considered while designing the organization structure. [7M]
3. a) Explain in brief the basic procedure of work measurement. [7M]
- b) Narrate the advantages and limitations of ABC Analysis. [7M]
4. a) What is merit rating? Explain the various methods of merits rating. [7M]
- b) Explain the various factors affecting the selection of a particular distribution Channel. [7M]
5. a) Explain the use of Floats in CPM Network. [7M]
- b) From the below table identify the critical path and crash the critical activities. [7M]

Activity	Normal Time	Crash Time	Normal Cost (Rs.)	Crash Cost (Rs.)
1 - 2	2	1	800	1550
1 - 3	4	2	500	950
2 - 3	3	2	700	900
2 - 4	4	3	900	1400
3 - 4	2	1	600	1200

6. a) How do you translate Corporate Vision into action? Explain. [7M]
- b) Explain the steps involved in strategy formulation and Implementation. [7M]
7. a) Define Balanced Score Card. State its merits and demerits. [7M]
- b) What is Materials Requirement Planning? State its advantages and disadvantages. [7M]

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