

**III B. Tech I Semester Regular Examinations, October/November - 2018****MANAGEMENT SCIENCE**

(Common to Civil Engineering and 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**

1. a) Define Organization. [2M]
- b) Give significance of Quality Control. [2M]
- c) What is Performance Management? [2M]
- d) Explain the concept on PERT. [3M]
- e) Discuss Corporate Planning Process. [3M]
- f) Define MIS. [2M]

**PART -B**

2. a) Explain the importance and the principles of Taylor's Scientific Management. [7M]
- b) What is Motivation? Explain Abraham Maslow's needs Hierarchy theory? [7M]
3. a) Define EOQ. Write about the factors that influence in determination of EOQ? [7M]
- b) What are the objectives of Work Study? [7M]
4. a) What is Merit Rating? How it is useful for Job Evaluation. [7M]
- b) State the functions of channels of distribution. [7M]
5. a) Following data relates to a certain project. [7M]

Activity	Optimistic Time	Most likely Time	Pessimistic Time
1-2	2	5	14
1-3	3	12	21
2-4	5	14	17
3-4	2	5	8
4-5	1	4	7
3-5	6	15	30

Find out: i) Construct the network. ii) Identify the critical path and duration of the project.

- b) What do you mean by crashing a network? State the step by step procedure of crashing. [7M]
6. a) Define strategic management. Describe the process of strategic management. [7M]
- b) What is Mission? What are the characteristics of a good Mission statement? [7M]
7. a) Explain the concept of Balanced Score Card. [7M]
- b) Define Supply chain Management. Explain its functions. [7M]

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1. a) Explain the functions of a manager. [2M]
- b) What is ABC analysis? [2M]
- c) What is meant by Merit Rating? [2M]
- d) Define HRD. [3M]
- e) Explain Mission statement. [3M]
- f) Explain about Business Process Outsourcing. [2M]

**PART -B**

2. a) Define Management. Explain Henry Fayol's Principles of Management. [7M]
- b) Explain theory X and theory Y of motivation. [7M]
3. a) What do you mean by Statistical Quality Control? Explain its importance in quality control. [7M]
- b) Define work study and explain the need for work study in an enterprise. [7M]
4. a) Explain the concept Job Evaluation. Discuss its significance. [7M]
- b) Discuss the different stages in Product Life Cycle. [7M]
5. a) Explain how you determine the probability of meeting the scheduled date of completion of project. [7M]
- b) A project consists of 10 activities as detailed below. Draw the network. Identify the critical path and duration of the project. [7M]

Job	Immediate Predecessors
A	-
B	A
C	A
D	A
E	B
F	C
G	D
H	D
I	E, F, G
J	H, I

6. a) Explain various elements of Corporate Planning Process. [7M]
- b) Define Environmental Scanning and how is it useful to business organizations? [7M]
7. a) Explain the concept on Total Quality Management. [7M]
- b) Describe the process of Six Sigma. [7M]

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 3. Answer any **FOUR** Questions from **Part-B**

**PART -A**

1. a) Explain about Decision Making Process. [2M]
- b) Define Economic Order Quantity. [2M]
- c) Define the term Marketing. [2M]
- d) Explain Project Crashing. [3M]
- e) What are genetic Strategies? [3M]
- f) What is the importance of balanced Score card? [2M]

**PART -B**

2. a) Explain Hertzberg's Two Factor Theory of Motivation. [7M]
- b) Discuss the various types of organization structures. [7M]
3. a) Explain briefly the scope of operations management. [7M]
- b) What methods can be adopted to reduce the inventory costs? [7M]
4. a) Explain different methods of training in an organization. [7M]
- b) What do you mean by marketing? Explain various functions of Marketing. [7M]
5. a) Discuss the guidelines for constructing a project network. [4M]
- b) Draw the PERT network for the following activities and determine the probability of completing the project in 48 days. [10M]

Jobs	Optimistic Time	Most likely Time	Pessimistic Time
1-2	5	8	1
1-3	1	3	5
2-4	4	6	7
3-4	3	7	9
4-5	10	20	30
4-6	14	18	23
4-7	3	6	10
5-7	5	9	12
6-8	1	4	6
7-8	2	5	9

6. a) Define Vision. Explain the characteristics of a Vision. [7M]
- b) Define Strategy. What are steps involved in formulating a strategy? [7M]
7. a) Explain the concept of Just-In-Time. [7M]
- b) What is Enterprise Resource Planning (ERP)? Explain the process of ERP? [7M]

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1. a) Explain the Principles of organization. [2M]
- b) What is R- Chart? [2M]
- c) List out the different Training Methods. [2M]
- d) Define Project Management. [3M]
- e) What do you mean by Strategy Evaluation? [3M]
- f) Define Total Quality Management. [2M]

**PART -B**

2. a) Define Management. Describe functions of Management. [7M]
- b) Explain process of Decision Making. [7M]
3. a) Define the term Inventory? Explain the need and importance of Inventory Management in an organization. [7M]
- b) Explain the functions of materials manager. [7M]
4. a) Suggest various strategies based on various phases of Product Life Cycle. [7M]
- b) Describe various functions of HR Manager. [7M]
5. a) From the activity details given below, determine the optimal project duration and optimal project cost. Indirect Cost is Rs.150 per day. [10M]

Activity	Normal Time (Days)	Normal Cost (Rs.)	Crash Time (Days)	Crash Cost (Rs.)
1-2	8	200	6	400
1-3	4	300	2	700
2-4	2	100	1	180
2-5	10	200	5	800
3-4	5	200	1	200
4-5	3	160	1	200

- b) Distinguish between PERT and CPM [4M]
6. a) State the significance of corporate planning. [7M]
- b) Explain the role of SWOT analysis in strategy formulation. [7M]
7. a) What is bench marking? How is useful? [7M]
- b) Explain the concept Business Process Outsourcing. [7M]

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