

**IV B.Tech (CSE) Sem-II QUESTION BANK**Subject: **Management Science (R13)****UNIT**

1. a) What is the significance of Hawthorne experiments for management?  
b) Define Management and explain its functions.
2. a) Define Management? Explain Henry Fayol's principles of management  
b) Differentiate between behavioral approach and scientific approach to management.
3. a) Explain the nature of management.  
b) What are the challenges you have to face as a manager.
4. a) Describe the theory of scientific management and explain how it was criticized.  
b) What is matrix organization and what is its uniqueness.
5. a) Why is management considered as a profession and what factors make it a profession?  
b) Distinguish between Theory – X and Theory – Y
6. a) What is motivation? Explain Abraham Maslow's needs Hierarchy theory.  
b) What do you mean by Functional organization structure? What are the advantages and disadvantages?

**II UNIT**

1. a) Describe the basic procedure to be followed in adopting work study techniques for Sound results  
b) What is inventory? Explain the need for inventory control
2. a) What do you mean by EOQ? derive the formula for determining the EOQ.  
b) Define control charts and explain its types
3. a) What is meant by materials management? State its advantages and disadvantages.  
b) Explain the types of ABC analysis.
4. a) What is meant by integrated Materials Management? State its advantages  
b) Discuss about various types of p chart, r chart.
5. What is statistical quality control? How is this important in operations management

### III UNIT

1. a) State the importance and methods of job evaluation.  
b) Define training and explain its methods.
2. a) What do you understand by marketing mix?  
b) Explain briefly the basic elements in marketing mix
3. a) Explain the functions of personnel management  
b) Evaluate the different sources of recruitment
4. a) What do you understand by Human Resource Management?  
b) Define Human Resource Development? Outline its concept.
5. a) Define Human Resource Management. Explain its functions  
b) What are the differences between Human Resource Management and Personal Management and Industrial Relations?
6. a) Discuss in brief about various wage payment plans? Are they relevant in present day Context.  
b) What is product life cycle? Describe its stages.

### IV UNIT

1. From the following information:
  - a) Draw the project network and find critical path.
  - b) Calculate earliest starting times and earliest finished times for each activity.
  - c) Determine Total, Free and Independent floats.

Activity	Immediate Predecessor	Duration
A	-	3
B	-	4
C	A	5
D	A	7
E	B,C	3
F	B,C,D	6

2. From the following information:
  - a) Draw the network
  - b) Find its critical path and project duration
  - c) Determine Total, Free and Independent Floats.

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

3. From the following data crash the network and identify the optimum time of the project where the indirect cost is estimated Rs. 60 per day.

Activity	normal time	Crash time	Cost slope
1-2	9	6	20
1-3	8	5	25
1-4	15	10	30
2-4	5	3	10
3-4	11	6	15
4-5	2	1	40

4. From the following information:

- Draw the PERT network
- Find variance for each activity
- Find variance and standard distribution for critical path
- What is the probability that the project will be completed in 23 days?
- Find Total, Independent and Free floats?

Activity	To	Tm	Tp
1-2	3	3	3
2-3	3	6	9
2-4	2	4	6
3-5	4	6	8
4-6	4	6	8
5-6	0	0	0
5-7	3	4	5
6-7	2	5	8

- What is CPM? Discuss its advantages and limitations.
  - Distinguish between PERT and CPM.
- What is pert? State its advantages and limitations
  - What is CPM? Explain its advantages.

## V UNIT

- How do you formulate and implement strategy? Explain
  - What is the need for corporate planning process?
- what are the factors of external and internal environmental to be considered for formulating the strategy? Explain.

- Explain various generic strategy alternatives in detail

3. (a) Define strategic management and describe the process of strategic management.  
(b) How do you carry out SWOT analysis for a manufacturing unit?
4. (a) What do you understand by the concept of strategy? Discuss the concept of Mission and Vision.  
(b). Discuss corporate planning process.
5. (a). Explain various external environment scanning techniques used by the organization  
(b) What is environmental scanning? How is this important in present day context.

## **VI UNIT**

1. Write a notes on:

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(a) Capability Maturity Model

(b) Balanced Score card.

2. Write a notes on :

(a) Supply Chain Management

b) Performance Management.

3 (a) What is Enterprise Resource Planning? Explain

(b) Explain the merits and demerits of Enterprise Resource Planning.

4. (a) define total quality management and explain its significance.

(b) Write notes on six sigma

5. Write a short notes on:

(a) Management Information System

(b) Bench Marking.

6. Discuss the following;

a) Supply Chain Management

b) Enterprise Resource Planning

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