

Code No: 07A6HS01

**R07****Set No. 2****III B.Tech II Semester Examinations, December 2010****MANAGEMENT SCIENCE****Common to CHEM, ICE, E.COMP.E, MMT, ETM, E.CONT.E, ECE, EEE****Time: 3 hours****Max Marks: 80****Answer any FIVE Questions****All Questions carry equal marks**

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1. State the significance of corporate planning. What is the need for planning? [16]
2. Explain different methods of training the employees? Suggest a suitable training method for salesmen of a Heavy Machine Manufacturing Organization. [16]
3. State the essential elements of good organisation. [16]
4. Given below are the network data and the time cost trade off data for the project. [16]

Activity	Predecessor	Normal		Crash	
		Days	Cost	Days	Cost
A	-	3	50	2	100
B	-	6	140	4	260
C	-	2	50	1	80
D	A	5	100	3	180
E	C	2	55	2	70
F	A	7	115	5	175
G	B,D	4	100	2	240

Assume Indirect Cost as Rs.700 per day.

Determine:

- (a) Normal project length
  - (b) Optimum length schedule also plot the cost-time relationship.
5. What do you understand by Economic order quantity? Derive the formula for determining the Economic order quantity. [16]
  6. Differentiate between information and data. How is data converted into information. [16]
  7. The following table gives the number of rivets missing at aircraft final inspection. Prepare appropriate control chart. [16]

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S.No	Air Plane No.	No. of missing Rivets
1	A	8
2	B	16
3	C	14
4	D	19
5	E	11
6	F	15
7	G	8
8	H	11
9	I	21
10	J	12
11	K	23
12	L	16
13	M	9
14	N	25
15	O	15
16	P	9
17	Q	9
18	R	14
19	S	11
20	T	9
21	U	10
22	V	22
23	W	7
24	X	28
25	Y	9
Total		351

8. What are the leadership qualities that you would look for in a manager? Distinguish between innate and acquirable qualities with examples. [16]

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**Set No. 4**

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**MANAGEMENT SCIENCE**

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**Time: 3 hours**

**Max Marks: 80**

**Answer any FIVE Questions**

**All Questions carry equal marks**

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1. What do you mean by crashing a network? State step by step procedure of crashing. [16]
2. Define channels of distribution. State its functions. [16]
3. Describe the factors influencing the plant layout. [16]
4. What are the basic characteristics of formal and informal organisations? How does informal organisation differ from formal organisation? [16]
5. State the various stages of evolution of management theory. [16]
6. Explain some of the causes that can result in the failure of an MIS. [16]
7. According to Porter's model, what determines the competition intensity in an industry? With respect to a firm that you know, identify the key strategic factors in its external environment. [16]
8. Why do organizations promote their employees? What should the criteria be for promotion? [16]

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**R07****Set No. 1**

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MANAGEMENT SCIENCE

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Time: 3 hours

Max Marks: 80

Answer any FIVE Questions

All Questions carry equal marks

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1. How should one go about identifying training needs in an organization? [16]
2. Explain the following terms with the help of a neat diagram.
  - (a) Economic order quantity and Lead time
  - (b) Safety stock and Re-order point
  - (c) Maximum inventory and Minimum inventory
  - (d) Average inventory and Inventory consumption trend. [4×4]
3. A project consist of 10 activities as detailed below. Draw the network. [16]

Job	Immediate Predecessor(s)
A	-
B	A
C	A
D	A
E	B
F	C
G	D
H	D
I	E,F,G
J	H,I

4. What is Supply Chain Management? Explain the advantages and disadvantages in Supply Chain Management. [16]
5. Describe the product layout with a neat sketch and state its advantages and disadvantages of product layout. [16]
6. Name and describe the various levels of management with their functions. [16]
7. What do you mean by matrix organisation? How does it differ from project organisation? Discuss the situations under which matrix organisation can be used fruitfully. [16]
8. In a company's competitive strategy, what importance should be attached to product and process R&D? Justify your answer. [16]

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**R07****Set No. 3**

III B.Tech II Semester Examinations, December 2010

MANAGEMENT SCIENCE

Common to CHEM, ICE, E.COMP.E, MMT, ETM, E.CONT.E, ECE, EEE

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions

All Questions carry equal marks

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1. Define the term strategic planning. State its advantages. Discuss the sequential steps followed in strategic planning. [16]
2. Explain the following:
  - (a) Bin cards
  - (b) Stores ledger
  - (c) Inward and outward registers
  - (d) Open tender and closed tender. [4×4]
3. What are the objectives of method study? [16]
4. Explain how an employee's grievance would be processed through various stages of grievance machinery. [16]
5. What is motivation? Explain its importance. [16]
6. The jobs of a project with the respective time estimates are given in table.

Jobs	$T_o$	$T_m$	$T_p$
1-2	3	6	15
1-6	2	5	14
2-3	6	12	30
2-4	2	5	8
3-5	5	11	7
4-5	3	6	15
6-7	3	9	27
5-8	1	4	7
7-8	4	19	28

- (a) Draw the network and calculate the following:
  - i. Variance of each job
  - ii. Length of the project
  - iii. Variance of project.
- (b) What is probability that the jobs on the critical path will be completed by the due date 42 days [8+8]

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7. What is Material Requirement Planning (MRP)? Illustrate. [16]
8. What is virtual organisation? Discuss the reasons for the emergence of the concept of virtual organisation. [16]

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