Code No: 07A6HS01 | **R07** | **Set No. 2**

III B.Tech II Semester Examinations,APRIL 2011
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
⋆ ⋆ ⋆ ⋆ ⋆

1. What do you mean by crashing a network? State step by step procedure of crashing. [16]

2. Briefly explain the concept of selection. What are the different techniques of selection followed by a Personnel Manager, while employing the personnel in an organization? [16]

3. What is SWOT analysis? Describe the process of SWOT analysis with examples. [16]

4. Write short notes on following:

   (a) Enterprise Resource Planning (ERP)
   (b) Business Process Outsourcing (BPO). [8+8]

5. "In Indian organisations, the social responsibilities are more in theory than in practice". Do you agree with this statement? Explain. [16]

6. Describe the product layout with a neat sketch and state its advantages and disadvantages of product layout. [16]

7. A Company requires 2000 units per month of raw material for its production. The cost of placing an order is Rs. 100 per order. The inventory carrying cost is 10% per year per unit of average inventory. The company maintains safety stock equal to 20 days requirement and the normal lead time is 10 days. The company works for 300 days in a year. If purchase price of raw material is Rs. 25 per unit, determine EOQ, Number of orders to be placed in a year, maximum inventory and re-order point. [16]

8. What are the different types of organisations used for the management of industrial undertakings? Which among them is best suited for large manufacturing undertakings? Give reasons for your answer. [16]

⋆ ⋆ ⋆ ⋆ ⋆

Code No: 07A6HS01 | R07 | | Set No. 4 |

III B.Tech II Semester Examinations,APRIL 2011
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
⋆ ⋆ ⋆ ⋆ ⋆

1. What do you understand by the concept of business process re-engineering? Explain with examples.

   [16]

2. The various time estimates of activities involved in a project are given in table; Determine;

   (a) Determine the expected completion time of the project.

   (b) Determine the variance and standard deviation of the project.

   (c) Determine the probability factor of completing the project with in 23 days.

   [5+5+6]

Activities	T_o	T_m	T_p
1-2	2	6	10
1-3	4	8	12
2-4	2	3	4
2-3	2	4	6
3-4	0	0	0
3-5	3	6	9
4-6	6	10	14
5-6	1	3	5

3. Discuss the merits and demerits of Payment by Time and Payment by Results.

   [16]

4. Describe briefly the various functions of stores. [16]

5. Name and describe the various tools and techniques used in layout planning. [16]

6. Describe the strategic management process. What mechanism would you suggest so that the right strategic plan is formulated? [16]

7. What is virtual organisation? Discuss the reasons for the emergence of the concept of virtual organisation. [16]

8. Critically examine Herzberg's two-factor theory. Make a comparison between theories of Herzberg and Maslow. Which of these theories do you prefer in Indian context? Give reasons. [16]

⋆ ⋆ ⋆ ⋆

2

Code No: **07A6HS01** **R07** **Set No. 1**

III B.Tech II Semester Examinations,APRIL 2011
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
⋆ ⋆ ⋆ ⋆ ⋆

1. What do you mean by mission and objectives of the organization? Explain with examples? [16]

2. Describe the nature and importance of management in modern business context. [16]

3. Briefly write a note on PERT & its time estimates. How do you calculate the expected time PERT? [16]

4. How does line and staff organisation structure differ from line organisation structure? What are the benefits and limitations of line and staff organisation structure? [16]

5. "Personnel management involves two categories of functions : managerial and operative." Describe these functions in detail. [16]

6. Differentiate between 'job order production' and 'batch production' systems. [16]

7. A company uses 4000 units of an item per annum. The items are produced from a local manufacturer at a basic price of Rs. 10 each. The procurement cost per order is Rs. 20 and the inventory carrying cost is 20%. The supplier offer the following discounts on the basic price for order quantities of:

Order Quantity	Discount
800-1599	2%
1600-3199	4%
3200 and above	5%

   Determine the EOQ. [16]

8. What are the major ingredients of total quality management? Are some ingredients more important than the others? Explain. [16]

⋆ ⋆ ⋆ ⋆ ⋆

3

Code No: 07A6HS01 | **R07** | **Set No. 3**

III B.Tech II Semester Examinations,APRIL 2011
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
⋆ ⋆ ⋆ ⋆ ⋆

1. Define the terms EST, EFT, LST, LFT and calculate them with an example. [4×4]

2. Differentiate between:

    (a) Goals and objectives

    (b) Objectives and policies

    (c) Policies and programmes. [5+5+6]

3. State and explain the Taylor's scientific management. [16]

4. What is personnel policy? Describe the important personnel policies that affect the job of a personnel manager. [16]

5. Differentiate between 'Line organisation' and 'Functional organisation'. [16]

6. Explain in detail the Taguchi technique of quality improvement. [16]

7. A firm uses every year 12,000 units of a raw material costing Rs. 1.25 per unit. Ordering cost is Rs. 15 per order and the inventory carrying cost is 5% per year of the average inventory.

    (a) Find the economic order quantity

    (b) The firm follows E.O.Q. purchasing policy. It operates for 300 days per year. Procurement time is 14 days and safety stock is 400 units. Find the re-order point, the maximum and average inventories. [16]

8. The following table gives the number of rivets missing at aircraft final inspection. Prepare appropriate control chart. [16]

Code No: **07A6HS01**   **R07**   **Set No. 3**

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

⋆ ⋆ ⋆ ⋆ ⋆