

III B.Tech I Semester Regular Examinations, November 2005
MANAGEMENT SCIENCE
 (Common to Electrical & Electronic Engineering, Electronics &
 Communication Engineering, Electronics & Instrumentation Engineering,
 Bio-Medical Engineering, Electronics & Control Engineering, Mechatronics,
 Computer Science & Systems Engineering and Instrumentation & Control
 Engineering)

Time: 3 hours**Max Marks: 80**

Answer any FIVE Questions
All Questions carry equal marks

1. Explain the contributions of Frederick W. Taylor in the area of Scientific management and its utility to modern managers. [16]
2. (a) What is organizational chart?
 (b) What is importance in Preparing organisation chart
 (c) Give any Three different examples [6+5+6]
3. What is a fixed position layout and under what conditions do you adopt it? Explain. [16]
4. What are the objectives and advantages of scientific inventory control? [16]
5. What are the implications for HRM with the increasing number of highly educated and professional work force entering the employment market? How HR manager get ready to force them? [16]
6. What is recruitment? Evaluate different the sources of recruitment. [16]
7. What is SWOT analysis? What is it significance? [16]
8. The following table gives the data relating to a project

Activity	Normal		Crash	
	Time (Weeks)	Direct cost Rs	Time (Weeks)	Direct cost Rs
1-2	8	7,000	3	10,000
1-3	4	6,000	2	8,000
2-3	0	0	0	0
2-5	6	9,000	1	11,500
3-4	7	2,500	5	300
4-6	12	10,000	8	16,000
5-6	15	12,000	10	16,000
5-7	7	12,000	6	14,000
6-8	5	10,000	5	10,000
7-8	14	6,000	7	7,400
7-9	8	6,000	5	12,000
8-9	6	6,000	4	7,800

Indirect cost per week Rs.1,000. By using iterative procedure, draw network diagrams and determine by trading off between time and cost parameters

- (a) the optimum project completion time
- (b) critical path(s) and
- (c) minimum total cost of project completion.

[16]

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1. (a) What is the need for designing an organization?
(b) Is there any link between 'management' and 'organization'? Explain. [6+10]
2. Why does 'organizing' assumes increasing importance in the modern times? [16]
3. What is a fixed position layout and under what conditions do you adopt it? Explain. [16]
4. (a) Define EOQ. Whether the factors that determine EOQ
(b) A firm requires 1000 units of a particular component. It pays Rs.50 per component to the vendor. The ordering cost is Rs.250 per order. The inventory carrying cost is 20% of the inventory per annum. Calculate
 - i. EOQ
 - ii. Number of orders per year.
 - iii. Total annual cost. [6+10]
5. (a) How has personnel management changed over the years? Explain.
(b) What are the functions of a personnel manager in a large manufacturing organization? Explain in brief. [8+8]
6. What is recruitment? Evaluate different the sources of recruitment. [16]
7. Is there any link between mission, goal, objective, strategy and programme in an industrial environment. [16]
8. What is meant by 'crashing' of network? Give step by step procedure for crashing. Illustrate with an example of your choice. [16]

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1. (a) Bring out the contrast between Theory X and Theory Y.
 (b) Do you find people of these traits around you? Illustrate. [8+8]
2. (a) Discuss the features of functional organization.
 (b) How is different from other forms of business structures? [8+8]
3. What is a fixed position layout and under what conditions do you adopt it? Explain. [16]
4. (a) What are the various functions of marketing?
 (b) What factors influence consumer behaviour? [8+8]
5. Discuss in detail the objectives and functions of Human Resource Management? [16]
6. Explain different methods of on-the-job training and off-the-job training. [16]
7. How do you translate corporate vision into action? Explain with an example? [16]
8. The following details relate to a small project with the help of which compute the probability of completion of project within scheduled time. The expected time of each activity is as follows: [16]

Sl. No.	1	2	3	4	5	6	7	8	9
Activity	1-2	1-3	2-4	3-4	4-5	5-6	3-5	5-7	6-7
Activity	6	8	7	12	3	5	7	11	10

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1. Explain the nature and features of management? [16]
2. What are the principles of sound organization structure? Explain. [16]
3. Check whether the number of observations is adequate for an accuracy of $\pm 5\%$ and confidence level of 95% limit if the number of observation of the workers working is 2500 and the number of observation of workers idle is 500. [16]
4. (a) Explain the features of good stores layout?
 (b) Explain the formats of different documents used in a store? [8+8]
5. 'The success of an organization to a greater extent depends on how the HRD acts'-
 Substantiate. [16]
6. What do you understand by job evaluation? Explain in detail different methods of
 job evaluation. [16]
7. What is strategic business unit and what is its role and relevance in corporate
 planning? Illustrate. [16]
8. A manufacturing company is planning to introduce a new product commercially.
 The list of activities to be carried out with the corresponding duration of time in
 weeks is listed below. [16]

Activity	description	duration	immediate predecessor
A	initial discussions	3	-
B	product design	11	A
C	market survey	9	A
D	market evaluation	2	C
E	product costing	5	B
F	Sales plan	6	C
G	Product pricing	2	D,E
H	Prototype construction	11	F,G
I	Market information preparation	8	B
J	Prototype testing	9	H,I

Draw the network to represent various activities of the project, determine the minimum duration of the project.
