

**III B.Tech. I Semester Supplementary Examinations, May -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. What are the three levels of management? What functions do you find at each of these levels? Explain.
2. What is matrix organization and what is uniqueness?
3. What is a fixed position layout and under what conditions you adopt it? Explain.
4. What do you understand by marketing mix? Explain industrial with examples.
5. Can Human Resource Management in an Information Technology (IT) company be different from that of a coal mining company? Justify your answer.
6. (a) What is Induction? What is the purpose of induction?
(b) What is the difference between Training and Development? Explain.
7. Write short notes on the following:
 - (a) Strategic alliances
 - (b) Strategic choice
 - (c) Allocation of resources and formulation of organization structure.
8. Consider a project consisting of nine jobs with the following precedence relations and average time estimates.

Job	predecessor	time (days)
A	-	30
B	-	20
C	A,B	20
D	A,B	20
E	B	10
F	D,E	10
G	C,F	40
H	D,E	20
I	G,H	30

Draw the project network; identify the critical path and total duration for the project.

Code No: RR310206

Set No.1

**III B.Tech. I Semester Supplementary Examinations, May -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. What is Maslow's hierarchy of heeman needs? Explain.
2. What are the principles of sound organization structure? Explain.
3. What is a fixed position layout and under what conditions you adopt it? Explain.
4. Explain the main steps in purchasing process.
5. How does IT help in having better HRM in a manufacturing organization.
6. Explain and evaluate various methods of merit rating?
7. Write short notes on the following:
 - (a) Strategic alliances
 - (b) Strategic choice
 - (c) Allocation of resources and formulation of organization structure.
8. Draw the network for the following project, identify the critical path, find the project duration and indicate slack at each event.

Activity	0-1	1-3	1-2	2-3	1-4	3-4	4-5
Time(months)	3	16	6	8	10	5	3

**III B.Tech. I Semester Supplementary Examinations, May -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 nature and features of management?
2. What are the social responsibilities of management? Illustrate.
3. What is a fixed position layout and under what conditions you adopt it? Explain.
4. With reference to an inventory model explain the following:
 - (a) Maximum stock
 - (b) Safety stock
 - (c) Lead time
 - (d) Reorder point.
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.
6. Explain and evaluate various methods of merit rating?
7. Identify the factors that are to be diagnosed in external and internal environment of a business organization.
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.

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

Code No: RR310206

Set No.3

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

★ ★ ★ ★ ★

**III B.Tech. I Semester Supplementary Examinations, May -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 how scientific management paved way for changes in the traditional mind-set.
2. What is organizational chart? What is importance in organizing?
3. What is a fixed position layout and under what conditions you adopt it? Explain.
4. With reference to an inventory model explain the following:
 - (a) Maximum stock
 - (b) Safety stock
 - (c) Lead time
 - (d) Reorder point.
5. What is Human Resource Management? What are its elements? What is its importance to organizations? Illustrate.
6. What are the objectives and activities associated with manpower planning? Explain.
7. What is the need for corporate planning? Explain the main elements corporate planning process.
8. Details of a project are shown in table

Activity	Normal		Crash	
	Time (days)	Cost in Rs.	Time(days)	Cost in Rs.
1-2	6	7000	3	14500
1-3	8	4000	5	8500
2-3	4	5000	1	9000
2-4	5	8000	3	15000
3-4	5	5000	3	11000

Indirect cost is Rs.3000 per day.

Determine optimal project duration and optimal cost of project
