

III B.Tech II Semester Supplementary Examinations, Aug/Sep 2007
MANAGEMENT SCIENCE
 (Common to Mechanical Engineering, Computer Science & Engineering,
 Chemical Engineering, Information Technology, Metallurgy & Material
 Technology, Electronics & Computer Engineering and Production
 Engineering)

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
 All Questions carry equal marks

1. (a) Why is management considered as a profession and what factors make it a profession?
 (b) If you are appointed as a manager in a medium sized manufacturing company, what activities do you have to perform? Explain. [8+8]
2. What is matrix organization and what is uniqueness? [16]
3. (a) What are the objectives of plant layout?
 (b) Explain the factors influencing plant layout. [8+8]
4. (a) Explain the concept of 'Economic Order Quantity'.
 (b) Explain the variables that go into the determination of EOQ.
 (c) Show how the formula is derived. [5+6+5]
5. What is Human Resource Management? Is it different from personnel management and Industrial Relations (PMIR)? [16]
6. What are the stages in manpower planning? Discuss. [16]
7. (a) What is the need for corporate planning?
 (b) Explain the main elements in corporate planning process. [8+8]
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
Expected time (weeks)	6	8	7	12	3	5	7	11	10

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1. (a) What are the managerial functions?
 (b) How are they integrated? [8+8]
2. (a) Why does social responsibility become an important facet of management in the present times?
 (b) How is it discharged? [8+8]
3. (a) What are the objectives of plant layout?
 (b) Explain the factors influencing plant layout. [8+8]
4. (a) Explain the concept of 'Economic Order Quantity'.
 (b) Explain the variables that go into the determination of EOQ.
 (c) Show how the formula is derived. [5+6+5]
5. What are the key functions of a Human Resource Manager? [16]
6. Explain how manpower planning helps to evolve different HR strategies. [16]
7. Identify the factors that are to be diagnosed in external and internal environment of a business organization. [16]
8. (a) Draw a Gantt Chart for the following programme and prepare a milestone chart for the Gantt Chart.

Finalize Specifications	1 week
Prepare engineering drawings	2 weeks
Order materials and equipments	1 weeks
Receive equipments and materials	3 weeks
Fabricate and assemble	3 week
Test and inspect	1 week
Pack and dispatch to customers	1 week

- (b) Explain the limitations of Gantt chart. [16]

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1. Explain the contributions of Frederick W. Taylor in the area of Scientific management and its utility to modern managers. [16]
2. (a) What are the advantages and disadvantages of functional organization?
(b) Draw a block diagram reflecting its philosophy? [10+6]
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) What do you understand by 'marketing mix'?
(b) Explain briefly the basic elements in marketing mix? [8+8]
5. Discuss in detail the objectives and functions of Human Resource Management? [16]
6. Explain the following concepts with appropriate examples.
(a) Job description
(b) Job specification
(c) Job enrichment
(d) Job requirement. [4×4]
7. What are the factors of external and internal environmental to be considered for formulating the strategy? Explain. [16]
8. The following are the activities identified in scheduling the time required to install an improved local area network (LAN). Draw the PERT network and identify the

critical path.

[8+8]

Activity identity	Description	Average duration t_e In days	Logical sequence
a	Establish projectParameters	2	-
b	Assess present LAN	5	a
c	Present analysis	1	b
d	Refine objectives	3	a
e	Purchase upgradation equipment	6	c,d
f	Test hardware	1	e
g	Test software	2	f
h	Conduct training	4	e
i	Evaluate up gradation	2	g,h

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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. What is matrix organization and what is uniqueness? [16]
3. (a) What are the objectives of plant layout?
 (b) Explain the factors influencing plant layout. [8+8]
4. (a) What is the need for market research?
 (b) Explain how market research can be carried out for formulating marketing strategy? [8+8]
5. What are the key functions of a Human Resource Manager? [16]
6. Explain how manpower planning helps to evolve different HR strategies. [16]
7. How do you differentiate mission from vision and what is their importance to organization? [16]
8. (a) Draw a Gantt Chart for the following programme and prepare a milestone chart for the Gantt Chart.

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- (b) Explain the limitations of Gantt chart. [16]
