

Code No: R09220801

R09**Set No. 2**

II B.Tech II Semester Examinations, APRIL 2011

MANAGEMENT SCIENCE

Common to ME, CHEM, MECT, MEP, AME

Time: 3 hours

Max Marks: 75

Answer any FIVE Questions
All Questions carry equal marks

1. With the usual notation derive the formula for EOQ explaining the underlying assumptions. [15]
2. Explain any six factors affecting span of control in detail. Discuss how span of control affects structures and managerial effectiveness. [15]
3. Explain various objectives and requirements of merit rating. Explain essential characteristics of a good wage incentive plan. [15]
4. If you were the chief executive officer of a large corporation such as Sony or Infosys, how would you institutionalize ethics in the organization? [15]
5. In the DMAIC methodology of Six Sigma implementation explain the
 - (a) Improvement phase
 - (b) Control phase. [15]
6. Explain the concept and purpose of Environment Scanning with examples. [15]
7. The characteristics of a project schedule are as given below:

Activity	Time(days)	Activity	Time(days)
1-2	4	5-6	4
1-3	1	5-7	8
2-4	1	6-8	1
3-4	1	7-8	2
3-5	6	8-10	5
4-9	5	9-10	7

- (a) Draw the network.
 - (b) If scheduled completion time is equal to the earliest expected time, find total, free and independent floats of each activity. Enter values in a tabular form. [15]
8. Calculate the number of observations required for an accuracy of ± 5 per cent and confidence level of 95 per cent, if the percentage occurrence of an activity is 0.8. [15]

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Set No. 4

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Max Marks: 75

**Answer any FIVE Questions
All Questions carry equal marks**

1. (a) State the objectives of management development.
(b) Explain various methods of management development. [7+8]
2. Explain the factors determining the location of industrial plant. [15]
3. Explain CPM for finding critical path, different types of floats of activities of a project. [15]
4. What is TQM? Explain the various stages of implementation of TQM. [15]
5. Why has the trait approach as means of explaining leadership been so open to question? What are the different styles of leadership? [15]
6. Explain the various functions of marketing. What is the importance of channels in distribution? How do you decide them? [15]
7. Why it is necessary to create staff positions in organizations? Do these positions reduce the authority of line managers? Explain. [15]
8. State the various elements of Corporate Planning process. Explain them briefly. Explain why plans fail. [15]

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R09**Set No. 1**

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MANAGEMENT SCIENCE

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Time: 3 hours

Max Marks: 75

Answer any FIVE Questions
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1. What is job description? Explain various parts of it. Write job description of a professor. [15]
2. What is theory X, theory Y? Explain how they can be used to motivate employees and get the best out of them. [15]
3. (a) Explain capability maturity model.
(b) Explain the process of six sigma implementation. [7+8]
4. A network consists of following activities with indicated duration in days

Activity	Duration in days
10-20	15
10-30	20
10-60	5
20-50	15
30-50	10
30-40	15
40-60	16
50-60	12
40-50	5

- (a) Draw the CPM network.
- (b) Calculate project duration and identify critical path. [15]
5. Define strategic business unit (SBU). When does a business unit becomes SBU? Illustrate with example. [15]
6. What do you understand by work measurement? Explain how do you determine standard time. Illustrate. [15]
7. How is inventory planning for independent demand items different from that for dependant Demand items? [15]
8. Explain the concept of corporate planning. Discuss the essential steps in corporate planning by using flow chart. [15]

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R09**Set No. 3**

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MANAGEMENT SCIENCE

Common to ME, CHEM, MECT, MEP, AME

Time: 3 hours

Max Marks: 75

Answer any FIVE Questions
All Questions carry equal marks

1. (a) Distinguish between value analysis and value engineering.
(b) State the conditions when Value Analysis should be applied.
(c) Explain Deming's PDCH. [5+5+5]
2. (a) Explain various types of floats & their importance.
(b) Discuss advantages and limitation of PERT & CPM techniques. [7+8]
3. What is scientific management? Explain briefly the contributions of F.W.Taylor and Henry Fayol. [15]
4. Explain the following in detail
(a) Mission
(b) Goals
(c) Objectives. [15]
5. What are the various stages in product life cycle and why is important to know about them for a marketing manager? [15]
6. (a) Explain Rowan plan of wage incentive scheme and what are the advantages and disadvantages of it.
(b) Time allowed for a job is 32 hrs, actual time taken is 26 hrs. What is his wage according to the Halsey plan if hourly wage rate is Rs 4. [7+8]
7. Define line & staff. If the task of person in a purely staff position is to offer advice, how can an individual receiving this advice make sure that it is complete? [15]
8. Explain the concept of statistical quality control. Explain how you can construct control charts for the variables. [15]
