

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

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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  $\pm 5$  per cent and confidence level of 95 per cent, if the percentage occurrence of an activity is 0.8. [15]

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**R09**

**Set No. 4**

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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. (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**

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  
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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**

**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**

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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]

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