R09

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
B. Tech IV Year I Semester Examinations, November - 2013
Management Science
(Common to ECE, ETM, MMT)

Time: 3 Hours   Max. Marks: 75

Answer any Five Questions
All Questions Carry Equal Marks
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1. What are the functions of management? Why logical sequence of management functions cannot be subordinated even by one function? Illustrate.   [15]

2. Define Organising. Explain Committee type of organization structure as a tool for group decision making technique.   [15]

3. What is time study? How this does supplement methods study? Illustrate. [15]

4. Construct $\overline{X}$ and R Charts from the following information. State whether the process is in control or not. For each of the following, $\overline{X}$ has been computed from a sample of 5 units drawn at an interval of half an hour from an ongoing manufacturing process.   [15]

Sample No.	1	2	3	4	5	6	7	8	9	10
$\overline{X}$	200	340	450	390	260	290	130	340	370	230
R	230	390	140	150	200	170	210	110	400	100

5.a) Explain Product Life Cycle in Detail. How the strategies keep changing at each phase of product life cycle for a marketer.
   b) If an activity is likely to take 20 minutes of optimistic time, 30 minutes of most likely time and 40 minutes of the pessimistic time estimate, what is the average time estimate?   [7+8]

6.a) What are the functions of a HR manager in a manufacturing unit?
   b) What is Just-in-Time Inventory? Explain the basic concepts.   [7+8]

7.a) What do you understand by SWOT Analysis? Discuss how it is carried out for an IT firm.
   b) Explain the importance and significance of wage and salary administration in the organizations.   [7+8]

8. Explain how the production environment has changed in the light of revolutionary tools such as a) JIT b) MRP and c) Six Sigma. Illustrate.   [7+8]

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