

R09

Code No: 09A70401

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

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 \bar{X} and R Charts from the following information. State whether the process is in control or not. For each of the following, \bar{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
\bar{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]

--ooOoo--