

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech IV Year I Semester Examinations, February/March - 2016

MANAGEMENT SCIENCE

(Common to ECE, ETM, MMT)

Time: 3 Hours

Max. Marks: 75

Answer any Five Questions
All Questions Carry Equal Marks

- 1.a) Define 'management'? Explain the nature and its importance to business.
b) Are 'Management' and 'Administration' are same? If not what is the difference? [10+5]
2. Explain the following:
a) Virtual organisation
b) Cellular organisation
c) Committee organization. [5+5+5]
- 3.a) What are the principles of a good plant layout?
b) Explain various types of plant layout and comment on their suitability. [7+8]
- 4.a) Derive the concept 'EOQ'? How is it determined?
b) An item is produced at the rate of 50 items per day, the demand occurs at the rate of 25 items per day. If set-up cost is Rs.100 and holding cost is Rs.0.01 per unit per item. Find the Economic lot size for run, assuming that the shortages are not permitted. Find the time of cycle. [7+8]
5. Explain the functions of Human Resource Management. Comment on the recent trends in recruitment. [15]
6. A project has nine activities; the expected time of each activity is as follows.
- | Sr.No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Activities | 1-2 | 1-3 | 2-4 | 3-4 | 4-6 | 5-6 | 3-5 | 5-7 | 6-7 |
- a) Draw the project net work
b) Identify the critical path
c) Find the project duration
d) Find the slack time of at each event. [15]
7. Describe the elements of corporate planning process. [15]
8. Explain the following:
a) Just-In -Time System
b) Enterprise Resource Planning
c) Business process outsourcing. [5+5+5]