

Code No: 115EF

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**  
**B.Tech III Year I Semester Examinations, February/March - 2016**  
**MANAGEMENT SCIENCE**  
**(Common to EEE, AE)**

Time: 3 hours

Max. Marks: 75

**Note:** This question paper contains two parts A and B.  
Part A is compulsory which carries 25 marks. Answer all questions in Part A.  
Part B consists of 5 Units. Answer any one full question from each unit.  
Each question carries 10 marks and may have a, b, c as sub questions.

**Part- A****(25 Marks)**

1. Answer briefly on the following:
- a) Concept of Management [2]
  - b) Motivation [3]
  - c) Objectives of a good Plant Layout [2]
  - d) Total Quantity Management (TQM) [3]
  - e) Six Sigma [2]
  - f) HRD [3]
  - g) Job Evaluation [2]
  - h) PERT [3]
  - i) Critical Path [2]
  - j) Strategy [3]

**Part-B****(50 Marks)**

- 2.a) "Management is getting things done through others." Elaborate.  
b) Give a brief account of the contribution to Management by F.W. Taylor. [5+5]
- OR**
- 3.a) List out the Principles of Management as laid down by Henry Fayol.  
b) Describe Mc. Gregor's Theory X and Theory Y. [5+5]
- 4.a) Distinguish between Product Layout and Process Layout.  
b) What is the procedure involved in Method Study. [5+5]
- OR**
- 5.a) What do you understand by Statistical Quality Control? Evaluate the Process Control charts.  
b) With the help of a diagram, explain the different stages in Product Life Cycle. [5+5]
- 6.a) What is Recruitment? What are different sources of recruitment?  
b) Explain the process of Selection of employees which is generally followed in a large scale business concern. [5+5]
- OR**
- 7.a) Explain the Analytical methods of Job Evaluation.  
b) Evaluate any four methods of Merit Rating. [5+5]
8. Explain the procedure to be followed for crashing project completion time. [10]

9. Draw the Network for the following project. It is further given that the project completion time is 42 days. Find the project duration. Also identify the Critical Path. [10]

<b>Activity</b>	<b>Description</b>	<b>Duration (days)</b>
1-2	Idea Generation	7
1-3	Market Survey	10
2-4	Prototype Making	7
3-5	Advertisement Campaign	9
4-5	Distribute samples	5
4-6	Commencement of Production	5
5-7	Fixing up sales outlet	7
6-7	Manufacture	14

10. Identify the factors that are to be diagnosed in external and internal environment of a business organization. [10]

**OR**

11. Illustrate the stages in the process of Strategy formulation and implementation. [10]

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