

**R13****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]

**OR**

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]

Activity	Description	Duration (days)
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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