

Code No: 12SEF

**R15**

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**

**B. Tech III Year I Semester Examinations, November/December - 2017**

**MANAGEMENT SCIENCE**

**(Common to AE, EEE)**

**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. Explain in short notes on the following concepts:

- |                                       |     |
|---------------------------------------|-----|
| a) Management as a function.          | [2] |
| b) Decentralisation.                  | [3] |
| c) Significance of Good Plant Layout. | [2] |
| d) Control charts.                    | [3] |
| e) JIT system.                        | [2] |
| f) Concept of HRM.                    | [3] |
| g) Recruitment.                       | [2] |
| h) Transfer.                          | [3] |
| i) Activity                           | [2] |
| j) Balanced Score Card.               | [3] |

**PART - B**

**(50 Marks)**

- 2.a) Discuss the Systems approach to the study of management.
- b) Bring out Henry Fayol's contribution to the science of management. [5+5]
- OR**
- 3.a) Distinguish between theory X and theory Y. Which theory do you think would work best in most situations?
- b) Explain the features, merits and demerits of Autocratic leadership style. [5+5]
- 4.a) State the features of different methods of production.
- b) Define the term "Work Study" and explain its objectives and benefits. [5+5]
- OR**
- 5.a) What is Statistical Quality control? What are its advantages?
- b) Illustrate the stages in Product Life cycle with the help of a diagram. [5+5]
- 6.a) What is Manpower planning? Discuss its objectives.
- b) Explain in brief the steps involved in Selection procedure. [5+5]
- OR**
- 7.a) Explain the relative merits and demerits of Seniority and Merit as the basis of promotion.
- b) What is a 'Grievance'? Discuss the various causes for grievances and the methodology of their redressal. [5+5]

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- 8.a) What are the applications of Networks? [5+5]  
b) Differentiate between CPM and PERT.

OR

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- 9.a) Distinguish between Total float, Free float and Independent float. [5+5]  
b) What is crashing in CPM technique?

- 10.a) Briefly explain the terms 'Goals' 'Objectives' and 'Policy'. [5+5]  
b) Outline the vital components of the Corporate Planning process.

OR

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- 11.a) What do you understand by Value Chain analysis? [5+5]  
b) What is meant by Bench marking? How is it helpful for business development?

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