

**R18**

Code No: 156DV

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech III Year II Semester Examinations, July - 2023

INDUSTRIAL MANAGEMENT  
(Common to CE, EEE, ME, ECE, MIE)

Time: 3 Hours

Max. Marks: 75

- Note:** i) Question paper consists of Part A, Part B.  
ii) Part A is compulsory, which carries 25 marks. In Part A, Answer all questions.  
iii) In Part B, Answer any one question from each unit. Each question carries 10 marks and may have a, b as sub questions.

**PART – A****(25 Marks)**

- 1.a) Write the social responsibilities of Management. [2]
- b) Note the importance of Douglas McGregor's Theory X and Theory Y of Management. [3]
- c) What is the use of Decentralization? [2]
- d) Write note on Matrix organization. [3]
- e) What are objectives of Line balancing? [2]
- f) Define value analysis. [3]
- g) Write note on process layout. [2]
- h) What is the purpose of plant layout? [3]
- i) What is the use of CPM? [2]
- j) What are the benefits of job evaluation? [3]

**PART – B****(50 Marks)**

- 2.a) Discuss the 14 Principles of Management of Henri Fayol.
  - b) Write about McGregor's Theory X and Theory Y in industries. [5+5]
- OR**
- 3.a) Discuss on Scientific management theory of F.W Taylor with an example.
  - b) Explain leadership styles with illustrations. [5+5]
4. Explain the types of organization structures with suitable examples. [10]
- OR**
5. Explain the features of boundary less organization, lean and flat structures and their suitability. [10]
- 6.a) What are the different Phases of value analysis? Explain them with an example.
  - b) Describe the types of production system. [5+5]
- OR**
- 7.a) Discuss on the factors influencing plant location.
  - b) Compare between the Urban-Rural industrial sites. [5+5]

- 8.a) Brief on single sampling and double sampling plans.  
 b) State the objectives of work study. Explain the steps in work study with an example. [5+5]

**OR**

- 9.a) Examine the statistical quality control tools in brief.  
 b) Describe the purpose of work measurement in production planning. [5+5]
10. What is the purpose of job evaluation? How can you perform job evaluation using different methods? [10]

**OR**

11. What is project crashing? The following is a table showing details of a project.

Task	Immediate predecessor	Normal		crash	
		Time (Weeks)	Cost (Rs.in thousands)	Time (Weeks)	Cost (Rs.in thousands)
A	-	12	20	8	30
B	-	10	15	7	20
C	B	7	8	5	14
D	B	8	11	5	15
E	B	10	9	6	15
F	E	4	5	5	8
G	A,D,C	14	3	9	4

Indirect cost is Rs.500 per day. Find the optimum duration and associated minimum project cost. [10]

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