

Code No: 156DV

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech III Year II Semester Examinations, August - 2022

INDUSTRIAL MANAGEMENT

(Common to EEE, CSE, IT)

Time: 3 hours

Max. Marks: 75

Answer any five questions
All questions carry equal marks

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- 1.a) What are the basic functions of management? Elaborate them.
 b) What is autocratic style of leadership? What are its distinguishing features? [9+6]
- 2.a) Outline Fayol's principles of management and briefly discuss its relevance to organization.
 b) Examine the elements of systems approach to management. [8+7]
- 3.a) What is span of control? What is delegation of authority?
 b) What is decentralization? What are its advantages and demerits? [8+7]
- 4.a) What are the important phases of value analysis?
 b) When do we go for batch production? What are the features of batch production? [7+8]
- 5.a) What is process layout? What are its advantages and limitations?
 b) For which type of production process, line balancing is useful? Define cycle time. [9+6]
- 6.a) Ten castings were inspected in order to locate defects in them. Every casting was found to contain certain number of defects as given below:

casting	1	2	3	4	5	6	7	8	9	10
No.of defects	--	3	1	3	2	--	3	2	1	1

Construct 'c' chart, find UCL and LCL values, mark them on the chart and comment on the chart.

- b) Explain the meaning of type I and type II errors. [10+5]
- 7.a) What is job evaluation? What are the objectives of job evaluation?
 b) What are the steps in calculation of standard time using stopwatch? [8+7]
8. Draw the network corresponding to the following and determine
 a) The earliest and the latest allowable start and completion times for each of the activities.
 b) The critical activities and the project duration and
 c) The total, free and independent floats for each of the activities. [15]

activity	Duration in days	activity	Duration in days
1--2	3	3--5	4
1--3	4	3--6	6
1--4	14	4--5	1
2--3	10	5--6	1
2--6	5	---	---

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