Code No: 138GR

R16

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
B. Tech IV Year II Semester Examinations, December - 2020
PRODUCTION PLANNING AND CONTROL
(Common to CE, ME, PTM)

Time: 2 Hours

Max.Marks:75

Answer any Five Questions
All Questions Carry Equal Marks
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1.a) Classify production systems according to volume and variety they produce and explain characteristics of each of them.
 b) Explain briefly the activities of PPC Department. [9+6]

2.a) Ten items kept in inventory are listed below. Which items should be classified as 'A', 'B' and 'C'? What percentage of items is in each class? What percentage of total annual value is in each class?

Item no	1	2	3	4	5	6	7	8	9	10
Annual use	200	100	2000	400	6000	1200	120	2000	1000	80
Price	40	360	0.2	20	0.04	0.8	100	0.7	1.00	400

 b) How are the A class, B class and C class items are controlled? [8+7]

3.a) Explain various steps involved in Largest candidate rule for line balancing.
 b) State demerits of largest candidate rule. How are they overcome in RPW method? [7+8]

4.a) Draw Bill of material for a product like a chair.
 b) State and explain various factors affecting routing procedure. [7+8]

5. The time spent in hours in processing two jobs on six machines A, B, C, D, E and F and the necessary technological orderings of machines are as follows.
 Job 1: A.20   C.10   D.10   B.30   E.25   F.15
 Job 2: A:10   C.30   B.15   D.10   F.15   E.20
 Use graphic method to determine an optimal sequence of jobs which minimizes the elapsed. [15]

6. State and explain various steps involved in drawing LOB. [15]

7.a) State and explain various activities of dispatcher.
 b) Draw format of move ticket by taking an example. [7+8]

8.a) What is meant by expediting? Explain expediting procedure generally follows in batch production system.
 b) Explain role of computer in forecasting and MRP. [8+7]

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