Paper / Subject Code: 42804 / Production Planning & Control

22-Nov-2019 1T01417 - B.E.(MECHANICAL)(SEM VII) (CBSGS)(R-2012) / 42804 - Production Planning & Control 77440

		(3Hours) Total Marks 8	30
N	.B:		
- `	1. 2.	Attempt any three out of remaining questions Draw neat sketches to illustrate your answers	
Q 1.	Wı	rite short notes on :	20
	a)	Two-bin system	
	b)	MRP-I and MRP-II	Y VIDO CO.
	c)	Dispatching	55.54 5.54
	d)	Delphi Method	
Q 2.		How the size of an organization affects the various factors that influence PPC?	20
	b)	Define the terms - lead time, safety stock, reorder point and maximum inventory.	
Q 3.	a)	Discuss the prerequisites of PPC.	20
	b)	Why process planning is needed? Explain Computer aided process planning.	
Q 4.	a)	Explain 1. Computer integrated process planning, 2. JIT system	20
	b)	What is Linear programming? Discuss the areas of applications of Linear programmin	ıg.
Q 5.	a)	Explain any two types of Qualitative forecasting models.	20
	b)	Explain the factors influencing scheduling.	

77440

7	ĺ	١
4	l	J
1		

	Processing times (Hours)			
Jobs	Machines			
	A	В	C.	
1	8	5	4	
2	10	6	9	
3	6	2	8 3	
4	7	3	6	
5	11 👸	470	5	

Determine the sequence for processing of these five jobs on three machines for which the entire process will be completed in the minimum possible time.

b) A small project is composed of 7 activities whose completion time estimates are given in the following table. Activities are identified by their beginning and end node numbers.

Activity	Optimistic time	Most likely time	Pessimistic time	
(i - j)	to (in weeks)	tm (in weeks)	tp (in weeks)	
1-2			7	
1-3		4,17	7	
1-4			8	
2-5			1	
3-5		\$ 55	14	
4-6		5	8	
5-6	3.00	6	15	

- i) Draw the project network
- ii) Find the expected duration and variance for each activity.
- iii) What is the expected project length
- iv) Calculate the variance and standard deviation of the project length.
