Reg. No.

Question Paper Code

11509

B.E. / B.Tech. - DEGREE EXAMINATIONS, NOV/DEC 2022

Sixth Semester

Production Engineering IE8693 - PRODUCTION PLANNING AND CONTROL

(Regulations 2017)

Duration: 3 Hours

Max. Marks: 100

PART - A $(10 \times 2 = 20 \text{ Marks})$

Answer ALL Questions

		Marks, K-Level, CO						
1.	Define Production Planning and Control.	2,K1,CO1 2,K2,CO1						
2.	Explain about design for manufacture.							
3.	Define Work Study.							
4.	What do you understand bymicro motion study?							
5.	List the factors affecting the selection of batch size.							
6.	What is Process Planning?	2,K2,CO3						
7.	Differentiate aggregate planning and master scheduling.							
8.	What is scheduling?							
9.	What is Kanban system?							
10.	Define EOQ.	2,K1,CO5						
	PART - B (5 × 13 = 65 Marks) Answer ALL Questions							
11.	control.	13,K2,CO1						
	OR	10 W2 GG1						
	b) Briefly explain the types of production systems.	13,K2,CO1						
12.	a) Describe about Method study and its procedure in detail. OR	13,K2,CO2						
	b) Explain the concept of Predetermined motion time standard with examples.	13,K2,CO2						
13.	a) Explain the various steps involved in value analysis. OR	13,K2,CO3						

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- b) Discuss in detail about quantity determination in batch production with 13,K2,C03 suitable examples.
- 14. a) Explain the concept, inputs, characteristics, working, output and 13,K2,CO4 benefits of MRP.

OR

b) Explain Line of balance in detail with suitable example.

13,K2,CO4

15. a) What do you mean by ABC analysis? Explain about it in detail and 13,K2,CO5 apply with numerical example.

OR

b) Explain in detail about effect of demand on inventories.

13,K2,CO5

PART - C $(1 \times 15 = 15 \text{ Marks})$

16. a) Five jobs are to be processed on three machines. The processing times in hours are given below. Determine the optimal sequence of jobs so that total elapsed time is minimized.

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Job	J1	y J2	J3	J4	I5 ·
A	5	7	6	9	5
В	2	1	4	5	3
C	3	7	5	6	7

OR

b) Explain in detail about computer integrated production planning 15,K3,CO5 system.