Max. Marks: 100

U.S.N

Time: 3 hrs

this statement.

to Gilbert).

manufacturing firms".

c. Show the contents of "Transportation kanban".

P.E.S. College of Engineering, Mandya - 571 401

Eighth Semester, B.E. - Industrial and Production Engineering
Semester End Examination; Aug. / Sen. - 2020

Just In Time Manufacturing

Note: i) Answer TWO full questions, selecting ONE full question from UNIT - I and UNIT - II. ii) Answer any THREE full questions, choosing from UNIT - III, UNIT - IV and UNIT - V. UNIT - I What is NPSRA? Explain its role in implementation of JIT. 8 How to enable JIT to occur? 8 List the benefits of JIT. 4 OR The idea of the TPS is to maintain a continuous flow of products in factories in order to 4 flexibly adopt demand changes, "Analyze the meaning of this statement". 10 What are the steps involved in using the two Kanbans? Illustrate the sub-rules of Kanban rule No.1 and No.2. 6 UNIT - II 6 Outline the production planning at TPS. 3 a. How the TPS adopts to major demand changes occurring within the year? 6 8 Summarize the major steps involved in mixed model assembly. OR Write about the criticism of TPS by the communist party of Japan. 6 Name the Information systems supporting kanban. 6 List the major concepts and Techniques to reduce the setup time. 8 **UNIT-III** Discuss about the JIT in "automotive industry". 8 Summarize the "JIT implementation at misowr homes of Japan" 8

> MURALI KRISHNA Controller Of Examinations College of Engineering nous institution under VTU. MANDYA-571 401, Kamalaka

"Cultural factors do not in any way inhibit the application of JIT philosophy", defend

Illustrate the findings of Imand Lee with reference to the "JIT implementation in US

b. Name the any sixteen important elements in JIT manufacturing system (according

4

8

4

UNIT - IV

7 a.	Distinguish clearly between the "Bird cage layouts" and "Isolated island layouts".	8
b.	Show the "inventory performance of different planning and control systems".	8
c.	Name the six reasons for creation and maintenance of effective teams.	4
8 a.	Compare Toyota and US manufacturing Philosophies.	10
b.	What are attitude changes needed while implementing JIT?	6
c.	Summarize the improvement afforded by JIT for the following industrial problems in	
	developing counters:	
	i) Inferior quality	4
	ii) Poor and inadequate maintenance	
	UNIT - V	
9 a.	List the characteristics of JIT purchasing with respect to "suppliers" and "quantities".	10
b.	Distinguish cleraly between the JIT purchasing and Traditional purchasing under the	
	floowing purchasing activity:	
	i) Selecting supplier	6
	ii) Receiving inspection	
	iii) Product specifiction	
C	"JIT benefits are not always easy to quantify", analyze the meaning of this statement.	4
10 a.	Illustrate the causes and remedies for the following major problems encountered in the	
	implementaion of JIT purchasing;	8
	i) Lack of support from suppliers	
	ii) Lack of top managemnt support	
b.	Show the overview of the JIT performance evaluation measures.	8
c.	Discuss about the "Layout desing" phase of project network approach to JIT implementation.	4

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