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## GUJARAT TECHNOLOGICAL UNIVERSITY

BE -	SEMESTER	-VIII(OLD)	<ul> <li>EXAMINATION</li> </ul>	- WINTER	2017

Subject Code:182504	Date:18/11/2017
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Subject Name: Facilities Planning

Time: 02.30 TO 05.00	Total Marks: 70
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## Instructions:

- 1. Attempt all questions.
- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.

Q.1	(a)	What is facility planning? Explain the general procedure with flow chart for designing layout using CRAFT.	07
	(b)	Define depreciation. Explain reasons of replacement of equipment with suitable examples.	07
Q.2	(a)	Explain the features of general purpose material handling equipments.	07
	(b)	Explain present worth method for replacement analysis.  OR	07
	(b)	Write a short note on Just- In- Time manufacturing.	07
Q.3	(a)	Which factors should be considered for location decision of plant? Elaborate your answer.	07
	(b)	Write the characteristics of product and process type of layouts.  OR	07
Q.3	(a)	Differentiate between fixed position and group technology type of layouts.	07
	(b)	Write a short note on flexible manufacturing system.	07
Q.4	(a) (b)	Which are the specific factors that affect the rural and urban location of plant? What are the functions of material handling system?	07 07
		OR-	
Q.4	(a) (b)	What is activity relationship? How does this parameter affect the layout design? Which are the main caused and sources of accidents in the plant? What should be taken care to prevent them?	07 07
Q.5	(a)	Write a brief note on material flow systems.	07
	(b)	Write a brief note on industrial act and safety.	07
		or or	
Q.5	(a)	Productivity goes with safety- Justify.	07
	(b)	Explain the minimum wage act.	07

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