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## **GUJARAT TECHNOLOGICAL UNIVERSITY** BE - SEMESTER\_VIII (NEW) EXAMINATION – WINTER 2018

BE - SEMESTER-VIII (NEW) EXAMINATION – WINTER 2018			
	•	Code: 2182504 Date: 03/12/201	.8
Subject Name: Facilities Planning			0
Time: 02:30 PM TO 05:00 PMTotal Marks: 70Instructions:			U
mşti	1. 2.	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a)	Define facility & facilities planning.	03
	<b>(b</b> )	What are the objectives of facilities planning?	04
	(c)	Explain the basic facility layout types with neat sketches.	07
Q.2	(a)	Name six major material handling equipments.	03
	<b>(b)</b>	Explain elements of costs.	04
	(c)	Describe the salient features of job-shop layout with its advantages. OR	07
	(c)	Differentiate between a process layout and a group technology layout in terms of their features.	07
Q.3	(a)	State names of various algorithms used to generate facility layouts while designing a layout (other than mentioned in Q.4(a) below).	03
	<b>(b)</b>	Explain the following as related to plant location problem: (i) Supply of raw materials (ii) Transportation facility.	04
	(c)	Write short note on The Indian Factories Act 1948.	07
Q.3	(a)	What are the basic differences between construction type and improvement type layout algorithms?	03
	<b>(b)</b>	State the principles of material handling.	04
	(c)	Write short note on The Industrial Dispute Act 1947.	07
Q.4	<b>(a)</b>	Write the full form of: (i) CRAFT (ii) ALDEP (iii) CORELAP.	03
	<b>(b</b> )	Explain following terms: Marginal cost, Marginal revenue, Sunk cost and Opportunity cost.	04
	(c)	Explain classification of material handling system. OR	07
Q.4	<b>(a)</b>	What is the need of replacement & obsolesce in an industry?	03
	<b>(b)</b>	What are the steps for evaluating a facilities plan in general?	04
	(c)	With the help of neat diagrams explain various flow patterns used within work station, within department and between departments.	07
Q.5	(a)	Draw an activity relationship chart for a seven-department-layout and state the meaning of the codes & ratings used in this chart.	03
	<b>(b)</b>	Describe fixed automation in brief.	04
	(c)	Write the advantages and disadvantages of selecting a plant location in urban areas.	07

## FirstRanker.com OR Firstranker's c oice (a) Define the following WWW First Branker.com th, Rate WWW First Ranker.com 3 Q.5

- (b) Write the subject, resource and communication aspects of a flow process for 04 a material management system and a material flow system.
- Describe flexible manufacturing system. (c)

07

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