

## www.FirstRanker.com

## **GUJARAT TECHNOLOGICAL UNIVERSITY**

BE- SEMESTER-VIII (NEW) EXAMINATION – WINTER 2020

Subject Code:2182504 Date:30/01/2021

**Subject Name: Facilities Planning** 

Time:02:00 PM TO 04:00 PM **Total Marks: 56 Instructions:** 

1. Attempt any FOUR questions out of EIGHT questions.

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

			MARKS
Q.1	(a)	Define the terms:	03
		1. Plant	
		2. Depreciation	
	( <b>L</b> .)	3. Unit Load	0.4
	<b>(b)</b>	What are the actions required to reduce work in process in automobile manufacturing industry?	04
	(c)	Determine the various factors to be considered in selecting the location for the Engineering College.	07
Q.2	(a)	Construct and explain which layout is suitable for a Hospital.	03
	<b>(b)</b>	What should you keep in mind while maintaining a facility plan?	04
	(c)	Explain the steps for layout design using SLP.	07
		COLL	
Q.3	(a)	List out various factors that are responsible for	03
	<i>-</i> .	replacement of equipment. Explain any two.	
	<b>(b)</b>	Determine merits and demerits of Product Layout.	04
	(c)	What do you mean by manufacturing? Write a short note on Just-in-time manufacturing.	07
Q.4	(a)	Describe accident. What are the duties of Plant supervisor?	03
	<b>(b)</b>	Briefly explain Indian Factory Act, 1947.	04
	(c)	Compare Fixed Automation System with Flexible Automation System.	07
Q.5	(a)	Briefly explain Minimum Wages Act, 1948	03
Q.C	(b)	State various methods of calculating depreciation.	04
	( )	Explain any one in brief.	
	(c)	Differentiate between depreciation and obsolescence.	07
Q.6	(a)	Describe preparation of a facility plan.	03
-	<b>(b)</b>	Differentiate between Risk and Uncertainty.	04
	(c)	Compare the straight line method and diminishing balance method with the help of a graph.	07
Q.7	(a)	What are the various causes of accidents?	03
	<b>(b)</b>	Describe any four material handling equipment used in a	04



	Shopping mawww.FirstRanker.com						www.FirstRanker.com			
<b>(c)</b>	Classify	material	handling	devices.	Draw	and	explain	07		
	working	of a crane	e.							

<b>Q.8</b>	(a)	What do you understand from the economic life of	03		
		equipment? Explain with an example.			
	<b>(b)</b>	Explain material handling in cellular layout.	04		
	<b>(c)</b>	Draw any two types of conveyors and state its specific			
		uses.			

\*\*\*\*\*

www.FirstRanker.com