

Seat No.: \_\_\_\_\_

Enrolment No. \_\_\_\_\_

**GUJARAT TECHNOLOGICAL UNIVERSITY**

**BE - SEMESTER-VIII (NEW) - EXAMINATION – SUMMER 2018**

**Subject Code: 2182504**

**Date: 09/05/2018**

**Subject Name: Facilities Planning**

**Time: 10:30 AM to 01:00 PM**

**Total Marks: 70**

**Instructions:**

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

		MARKS
<b>Q.1</b>	(a) Give three best real plant locations examples with reasons	<b>03</b>
	(b) Differentiate Rural and Urban location patterns	<b>04</b>
	(c) Discuss Facility Location Models and Cost Analysis	<b>07</b>
<b>Q.2</b>	(a) Explain Facility Planning Strategies in brief	<b>03</b>
	(b) Brief four types of plant layout	<b>04</b>
	(c) Explain ALDEP Procedure	<b>07</b>
<b>OR</b>		
<b>Q.3</b>	(c) Explain CORELAP Procedure	<b>07</b>
	(a) Discuss in brief fixed automation system	<b>03</b>
	(b) Explain how in process work reduction can be done?	<b>04</b>
	(c) Explain in detail JIT Concept	<b>07</b>
<b>OR</b>		
<b>Q.3</b>	(a) Discuss in brief facilities planning trends	<b>03</b>
	(b) Discuss about activity relationship and space requirement	<b>04</b>
	(c) Explain in detail FMS Concept	<b>07</b>
<b>Q.4</b>	(a) How a facility plan is selected, prepared and presented?	<b>03</b>
	(b) How a facility plan is evaluated?	<b>04</b>
	(c) How a facility plan is implemented and maintained?	<b>07</b>
<b>OR</b>		
<b>Q.4</b>	(a) Discuss necessity of industrial acts	<b>03</b>
	(b) Discuss causes and sources of accidents	<b>04</b>
	(c) Discuss Minimum Wage Act 1948	<b>07</b>
<b>Q.5</b>	(a) Discuss Risk and Uncertainty	<b>03</b>
	(b) Discuss discounted cash flow techniques	<b>04</b>
	(c) Discuss reasons for Replacement and its models	<b>07</b>
<b>OR</b>		
<b>Q.5</b>	(a) Classify Material Handling System	<b>03</b>
	(b) Discuss scope and function of Material Handling in brief	<b>04</b>
	(c) Discuss Principles and necessity of Material Handling	<b>07</b>

\*\*\*\*\*