Seat No.: _____ **Enrolment No._____**

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER–VIII (OLD) - EXAMINATION – SUMMER 2017

Subject Code:182504 **Date:09/05/2017**

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.**

Q.1	**(a)**	Explain ALDEP algorithm with suitable illustration.	**07**
	(b)	For which type of the industry, Rajkot is the best location? Justify your choice with appropriate reasons. If the plant is required to be shifted to Ahmedabad or Surat, Where it can be shifted for a successful run? Give reasons.	**07**
Q.2	**(a)**	Write a short note on Simulated Annealing	**07**
	(b)	Explain how you will solve the facility planning problem by "Computerized Relative Allocation of Facilities Techniques"	**07**
		OR	
	(b)	Explain the Implementation of Facility Plan in Ship Building Industry	**07**
Q.3	**(a)**	Explain the Facility Planning trends in detail.	**07**
	(b)	Explain genetic algorithm and it's importance in facilities planning.	**07**
		OR	
Q.3	**(a)**	List the reasons for replacement and it's models .	**07**
	(b)	Explain purpose, type and requirement of Depreciation methods .	**07**
Q.4	**(a)**	Differentiate the Rural and Urban Site Selection for Engineering Institute in Ankleshwar.	**07**
	(b)	Discuss the concept of Unit Load Design.	**07**
		OR	
Q.4	**(a)**	Explain the various Causes and Sources of an Accident with suitable example	**07**
	(b)	Write a short note on Just-in-time manufacturing .	**07**
Q.5	**(a)**	Explain an Indian factories Act 1948 in detail	**07**
	(b)	Explain Concept of Engineering economics, Risk and uncertainty.	**07**
		OR	
Q.5	**(a)**	Explain Risk and Uncertainty with Discounted Cash Flow Techniques in brief.	**07**
	(b)	Explain the relationship chart with the aid of diagram.	**07**

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