## **GUJARAT TECHNOLOGICAL UNIVERSITY** BE - SEMESTER-VIII EXAMINATION – WINTER 2015

Subject Code:182504Date:16/12/201Subject Name: Facilities PlanningTime: 2:30pm to 5:00pmTime: 2:30pm to 5:00pmTotal Marks:Instructions:1. Attempt all questions.1. Attempt all questions.2. Make suitable assumptions wherever necessary.3. Figures to the right indicate full marks.			2015	
			70	
Q.1	(a)	Explain flowchart of CRAFT with suitable illustration.	07	
	(b)	Explain ALDEP algorithm with suitable illustration.	07	
Q.2	(a)	Explain CORELAP algorithm with suitable illustration.	07	
	(b)	Compare RURAL, URBAN and SEMIURBAN site location.	07	
	(b)	Justify the location of SURAT city is more convenient for textile industries than RAJKOT.	07	
Q.3	(a)	Write a short note on FMS.	07	
	(b)	Write a brief note on Indian Factories Act1948.	07	
Q.3	(a)	Write a short note on trends of Facilities Planning.	07	
	(b)	Write a brief note on Minimum Wage Act1948.	07	
Q.4	(a)	Explain the difference between obsolesce and depreciation .also list down the type and requirement of depreciation methods.	07	
	(b)	Write a brief note on preparing the Facility plan.	07	
Q.4	(a) (b)	Explain any one Replacement model with suitable illustration. Write a brief note on evaluating the Facility plan.	07 07 07	
Q.5	(a) (b)	Explain Automation in part handling and optimum allocation of material handling equipment. Explain Simulated annealing and genetic algorithm in brief. Explain their importance in facilities planning.	07 07	
Q.5	(a)	Explain silent features and application of general purpose material handling equipment.	07	
	(b)	State causes and sources of accident. Prepare an accident report if worker is falling down from the shop floor and having serious head injuries.	07	

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