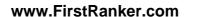


Seat No.: _		Enrolment No.			
		GUJARAT TECHNOLOGICAL UN	IVERSITY	7	
		BE - SEMESTER-VI (NEW) - EXAMINATION -	SUMMER 20	18	
Subject Code:2162509 Date:03/0					
•		ame:Plant Maintenance and Safety Engg.	2400100,00,12		
•		30 AM to 01:00 PM	Total Mark	.a. 70	
			Total Mark	S: /U	
Instru	ctions				
		Attempt all questions.			
		Make suitable assumptions wherever necessary. Figures to the right indicate full marks.			
	3. 1	rigures to the right mulcate run marks.			
272-280-200-	0.040			MARKS	
Q.1	(a)	Write a brief note on Principle of use of cub material handling.	200 - 100 -	03	
	(b)	Taking an example of a super market, discuss of facility layout planning.	importance	04	
	(c)	Discuss importance of locational factor in su industrial product. Discuss giving example o ceramic industries near Morbi		07	
Q.2	(a)	Briefly discuss objectives of layout planning.		03	
	(b) (c)	Discuss product type layout with an industrial example.  Discuss reasoning of skilled labour availability for setting		04 07	
	(0)	up a facility location. Take suitable example of an			
		industrial sector wherein this reason is consi			
		important. Explain how it affects long-term su organization.	ccess of the		
	-	OR OR		,	
	(c)	Classify layout types. Describe process t design, its characteristics and typical produced/organizations that use process type I	products	07	
Q.3	(a)	Classify material handling systems with res flow direction and type of product.		03	
	(b)	Discuss principle of gravity. Take an example handling for product handling wherein princip gravity is used.		04	
	(c)	Consider yourself as a plant manager of a cit analyze material handling problem as a whole up a new material handling system.	y mall, and e for setting	07	
Q.3	(a)	OR Discuss flow pattern for an assembly line	e. Take an	03	
	(b)	example of a paint shop.  List quantitative models for facility location. Disc	use the etone	0.4	
	(b)	for modeling a location decision for Single facililocation problem.		04	
	(c)	Discuss the need for computerization of layor Discuss ALDEP, Take a suitable example a development of layout using ALDEP.		07	
Q.4	(a)	Write a brief note on optimum allocation	of Material	03	
		Handling equipment.			
	<b>(b)</b>	Discuss role of maintenance management as	applied to	04	

foundry industries.



	(c)	Discuss total productive maintenance as applied in a ship- breaking industry.	07	
		OR		
Q.4	(a)	Define an accident, and classify. Discuss accident causation.	03	
	(b)	Discuss preventive maintenance and its role, as applied at a manufacturing shop.	04	
	(c)	Discuss organization of maintenance function. Take an example of maintenance function carried out at investment	07	
	,	casting industry.		
Q.5	(a)	How does factories' act look after welfare of workers and other employees of an industrial organization. Describe.	03	
	(b) Discuss predictive maintenance and measures to prevent an accident. Take an example of chemical industry.			
	(c)	Discuss facility layout planning in light of optimum utilization of the plant facility. Take an example of a	07	
		furniture show room and manufacturing facility.  OR		
Q.5	(a)	Discuss importance and necessity of labor regulations.	03	
2.0	(1.)	W-it b-i-6 - t C II ti	04	
	(0)	What do you understand by alosaness routings as applied		
	(c) What do you understand by closeness rankings, as applied to ALDEP? Discuss how the rankings are calculated.		07	
		What do you understand by closeness rankings, as applied to ALDEP? Discuss how the rankings are calculated.  ***********************************		