GUJARAT TECHNOLOGICAL U		Enrolment No		
		GUJARAT TECHNOLOGICAL UNIVERSITY		
		M.E –II st SEMESTER–EXAMINATION – JULY- 2012		
Subj	ect c	ode: 1721310 Date: 12/07/20	12	
•		lame: Road Safety and Environment		
Time: 10:30 am – 13:00 pm		30 am – 13:00 pm Total Marks:	Total Marks: 70	
Instr	ucti	ons:		
		empt all questions.		
		ke suitable assumptions wherever necessary.		
3.	rigi	res to the right indicate full marks.		
Q.1	(a)	Briefly give Road safety scenario in India.	07	
	(b)	List out various methods of Statistical analysis of Road Accident Records.	07	
		Explain Poisson Distribution with suitable example.		
Q.2	(a)	Explain briefly traffic management measures and their influence on accident	07	
	. ,	prevention.		
	(b)	What do you mean by condition diagram? Explain briefly.	07	
	(b)	OR Explain collision diagram with neat sketches.	07	
	(D)	Explain comsion diagram with heat sketches.	U	
Q.3	(a)	Write short on Traffic calming measures.	07	
	(b)	Briefly explain the details to be collected in Road accident form A-1.	07	
		OR		
Q.3	(a)	Discuss various measures to increase pedestrian safety.	07	
	(b)	Discuss how highway design can enhance road safety.	07	
Q.4	(a)	What is Road Safety Audit? State the specific aims of RSA. Also state	07	
	()	important benefits of Road safety audits.		
	(b)	Discuss how safety can be enhanced during construction operations in a	07	
		highway.		
0.4	(-)	OR	0.5	
Q.4	(a)	With a flow chart, state the steps involved in Road safety Audit process as per IRC: SP: 88-2010.	07	
	(b)	Draw flow diagram for environmental impact assessment of highway	07	
	. ,	projects in India as per IRC: 104:1988.		
Q.5	(a)	Enlist the detrimental effects of traffic on the environment. Explain vibration	07	
Q.S	(a)	and severance effect briefly.	U I	
	(b)	What do mean by Noise? What are the detrimental effects of traffic noise?	07	
		Explain briefly.		
0.7		OR	Δ=	
Q.5	(a)	What are the various measures for controlling air pollution from road traffic? Explain briefly.	07	
	(b)	Write explanatory note on international guidelines for EIA of highway	07	
	(~)	projects.	٠,	

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