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GUJARAT TECHNOLOGICAL UNIVERSITY

		BE - SEMESTER- V (New) EXAMINATION – WINTER 2019	
Subject Code: 2150601 Date: 0			/12/2019
Subject Name: Highway Engineering			
Time: 10:30 AM TO 01:00 PMTotal Mai			arks: 70
Instr	uction		
	1. 2.	Attempt all questions. Make suitable assumptions wherever necessary.	
	3.	Figures to the right indicate full marks.	
			MARKS
Q.1	(a)	6	03
	(b)	(1) Overtaking Sight Distance (2) Traffic volume (3) Carriage way	0.4
	(b) (c)		04 07
	(C)	highway.	07
Q.2	(a)	Define camber? What are the objects of camber?	03
	(b)		04
	(c)	Differentiate between Nagpur and Bombay Road development plan.	07
		OR	
	(c)	The speeds of overtaking and overtaken vehicles are 75 and 40 kmph respectively on a two way undivided traffic road. If the acceleration of overtaking vehicle is 0.98 m/sec ² calculate the safe overtaking sight distance.	07
Q.3	(a)		03
X.C	(b)		04
	(c)		07
		OR	
Q.3	(a)	construction.	03
	(b)		04
0.4	(c)	Describe Aggregate impact test with figure.	07
Q.4	(a) (b)	Explain the construction procedure of WBM road. Compare tar and bitumen.	03 04
	(D) (C)	Describe road arboriculture	07
	(0)	OR	07
Q.4	(a)	Define (1) Running speed (2) Spot speed (3) Journey speed.	03
	(b)		04
	(c)	Explain various measures for the reduction in accident rates.	07
Q.5	(a)	Enlist types of parking. Describe any one in details.	03
	(b)	Distinguish between Traffic Sign and Traffic Signal.	04
	(c)	Discuss requirements for pavement widening on horizontal curve.	07
		OR	
Q.5	(a)		03
	(b)		04
	(c)	Describe sub surface drainage with figure.	07
