Seat No.:	Enrolment No
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GUJARAT TECHNOLOGICAL UNIVERSITY ME SEMESTER – I (OLD) EXAMINATION – SUMMER 2017

•		le: 711303N Date:10/05	5/2017
Time: (1)	02:30 . Atte	ne: Highway Materials and Constructions P.M. to 05:00 P.M. Total Mark empt all questions. ke suitable assumptions wherever necessary. ures to the right indicate full marks.	xs: 70
Q	.1 (a	· · · · · · · · · · · · · · · · · · ·	07 07
Q	.2 (a		07
	(b	consolidation.	07
	(b	OR What is the need of soil compaction? Explain how compaction is carried out on highway construction site?	07
Q	.3 (a	,	07 03
	(2	(ii) Write in brief: Road work in desert area. OR	04
Q	.3 (a		07
	(b	Enlist minimum five tests on highway construction materials aggregate and bitumen.	07
Q	.4 (a	Explain aim, apparatus and procedure of softening point with importance of the test.	07
	(b) (i) Macadam construction	03
		(ii) Road work in hilly area.	04
Q	.4 (a	Which property is determined by Impact test? Explain impact test with aim, apparatus and procedure.	07
	(b	(i) Explain in brief Surface treatment.(ii) Write importance of drainage in highway construction.	03 04
Q.	.5 (a) Sketch neat and labeled cross section of flexible and rigid pavement.	07
	(b	(i) Explain in brief: Aggregate blending method.	03
		(ii) What is the importance of CBR in highway construction? OR	04
Q.	.5 (a		07
	(b	(i) What are the desired properties of aggregate?	03
		(ii) Write importance of proctor test	04