Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

M. E. - SEMESTER - IV • EXAMINATION - SUMMER • 2013

Su Tii	bject me: 1 struc 1.	code: 741301 Name: Advances in Transportation Engineering 0.30 am – 01.00 pm Total Marks: 70 etions: Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a)	Explain Advanced Traveler Information System in context to mass transportation. List its advantages.	07
	(b)	Write short note on Gyratory Compactor.	07
Q.2	(a)	What do you understand by Smart Vehicle? Explain in brief.	07
	(b)	What is adaptive traffic control system? Write its advantages and disadvantages.	07
	(b)	OR How the Fly ash is useful in road construction? What are the types of fly ash and state its property.	07
Q.3	(a)	Write note on Role of ITS in safety.	07
C	(b)	Write note on Modified Bitumen Emulsion.	07
		OR	
Q.3	(a)	Write note on ITS and road-pricing	07
	(b)	Write note on Fiber Reinforced Concrete.	07
Q.4	(a)	How do you related the sustainable mobility with the ITS?	07
	(b)	Where do you suggest the use of stone matrix asphalt? Briefly explain its mix design. OR	07
Q.4	(a)	What do you understand by Collision Warning System? Explain in brief.	07
Ų.4	(a) (b)	Write note on Anti stripping additives.	07
Q.5	(a)	What is incident management? How it improve the traffic control system?	07
-	(b)	Explain PMB, EMB, NRMB and CRMB	07
		OR	

Q.5 (a) What do understand by high performance concrete? Explain.

(b) How the ITS is useful in regional strategic planning? Briefly explain.

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