Seat No.:	nrolment No
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GUJARAT TECHNOLOGICAL UNIVERSITY

BE SEM-VIII Examination May 2012

Subject code: 180202

Subject Name: Automotive Electrical & Electronics

Date: 10/05/2012 Time: 10.30 am – 01.00 pm Total Marks: 70

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- 1. Attempt all questions.
- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.

Q.1	(a) (b)	Explain Starting system and Ignition system of Vehicle. Explain Positive and Negative earthing.	07 07
Q.2	(a) (b)	Explain lead acid battery construction with neat sketch. Explain the various battery tests. OR	07 07
	(b)	Explain battery failures.	07
Q.3	(a) (b)	Explain Armature reaction and Third brush regulation in generator. What is a compensated voltage control regulator? Explain it with the help of a neat circuit diagram.	07 07
		OR	
Q.3	(a)	Explain Bendix drive cranking motor.	07
	(b)	Explain the constructional details of distributors with magnetic pick-ups.	07
Q.4	(a) (b)	Explain the ideal spark plug characteristics. Describe with the help of a neat sketch the constructional details of headlight.	07 07
		OR	
Q.4	(a)	Explain fuel gauge with neat circuit diagram.	07
C -	(b)	Explain windscreen wiper.	07
Q.5	(a)	Explain ignition coil tester.	07
	(b)	Explain timing devices.	07
	` /	OR	
Q.5	(a)	Define cable colour code and classify the automobile cables.	07
_	(b)	Explain air conditioning and heating procedure in vehicle.	07
