Seat No.:	Enrolment No.

## **GUJARAT TECHNOLOGICAL UNIVERSITY**

BE – SEMESTER – V (NEW) EXAMINATION – WINTER 2015

Subject Code: 2150208 Subject Name: Automobile Electrical System Time:10:30am to 1:00pm Instructions:		Date:14/12/ 2015 Total Marks: 70	
1115		Attempt all questions.  Make suitable assumptions wherever necessary.	
Q.1	(a) (b)	Explain color coding of wiring system.  Draw a wiring and layout diagram of 4 wheeler vehicle.	07 07
Q.2	(a) (b)	Explain Battery Rating. Explain various battery charging methods.  OR	07 07
	<b>(b)</b>	Compare lead acid battery, dry battery and alkaline battery.	07
Q.3	(a) (b)	Explain working of glow plug and choke.  Draw ignition circuit for a 4 cylinder engine  OR	07 07
Q.3	(a) (b)	Explain construction of spark plug. What is plug fouling? Explain types of drive mechanisms for starter motor.	07 07
Q.4	(a) (b)	Explain the construction of alternator and its advantage over ge Explain the working of cut out relay, voltage regulator and curre <b>OR</b>	
Q.4	(a) (b)	What is ballast resistance? Explain dwell angle. Explain electronic ignition system.	07 07
Q.5	(a) (b)	List various types of horns and explain working of any one.  Draw an instrument cluster panel for a car.  OR	07 07
Q.5	(a) (b)	Explain the working of odometer and tachometer. Explain the working of windscreen wiper.	07 07

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