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## **GUJARAT TECHNOLOGICAL UNIVERSITY**

<b>BE - SEMESTER- V (New) EXAMINATION - WINTER 2019</b>			
Subject Code: 2150208 Date: 06/			12/2019
Subject Name: Automotive Electrical Systems			
Time: 10:30 AM TO 01:00 PM Total Marks: 70			
Instructions:			
1. Attempt all questions.			
		Make suitable assumptions wherever necessary.	
	3.	Figures to the right indicate full marks.	MADEG
			MARKS
Q.1	(a)	Justify the need of windshield wiper.	03
	<b>(b)</b>	Draw layout of wiring diagram of auto rickshaw.	04
	(c)	Distinguish between lead acid battery, dry battery and alkaline battery.	07
Q.2	(a)		03
	<b>(b)</b>		04
	(c)	Describe construction and working of lead acid battery.	07
	(a)	OR Describe construction and working of dry bettern	07
0.2	$(\mathbf{c})$		07 03
Q.3	(a) (b)	• • • •	03 04
	(U)	regulator.	04
	(c)	Explain colour coding of wiring system.	07
	(0)	OR	07
Q.3	(a)	-	03
Ľ	(b)	-	04
	(c)	Illustrate magneto ignition system.	07
<b>Q.4</b>	(a)	Define Diode rectification.	03
	<b>(b)</b>		04
	(c)	Describe ballery ignition system.	07
		Define speck also fouling OR	
Q.4	(a)	Denne spark plug fouring.	03
	<b>(b)</b>		04
	(c)	Describe construction and working of spark plug with neat sketch.	07
Q.5	(a)		03
	<b>(b)</b>		04
	(c)	Illustrate characteristics of ideal sparkplug.	07
05	(a)	OR Describe speedometer	02
Q.5	(a) (b)	•	03 04
	(b) (c)	Explain coolant temperature gauge. Describe types of reflectors.	04 07
		Desence types of reflectors.	07

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