

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-V (NEW) EXAMINATION – WINTER 2018****Subject Code:2150208****Date:07/12/2018****Subject Name:Automotive Electrical Systems****Time: 10:30 AM TO 01:00 PM****Total Marks: 70****Instructions:**

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

		MARKS
Q.1	(a) List types of cables used in automobile.	03
	(b) Draw layout of wiring diagram of four wheeler vehicle.	04
	(c) Explain color coding of wiring system.	07
Q.2	(a) Justify the need of fog lamp.	03
	(b) Explain disadvantages of lead acid battery.	04
	(c) Describe about two filament modern head light.	07
	OR	
	(c) Explain side indicator lamp.	07
Q.3	(a) Define need of glow plug.	03
	(b) State advantages of alkaline type battery.	04
	(c) Illustrate working and construction of bendix drive.	07
	OR	
Q.3	(a) Define cranking motor principle.	03
	(b) Explain Battery ratings.	04
	(c) Describe about overrunning clutch.	07
Q.4	(a) Justify the need of alternator.	03
	(b) Explain materials used in sparkplug.	04
	(c) Demonstrate cutout relay.	07
	OR	
Q.4	(a) Define principle of alternator.	03
	(b) Describe spark plug fouling.	04
	(c) Explain constant voltage system used in regulator.	07
Q.5	(a) Describe windshield wiper.	03
	(b) Explain wind tone horn.	04
	(c) Illustrate characteristic of sparkplug.	07
	OR	
Q.5	(a) Explain power window.	03
	(b) Describe relay type horn.	04
	(c) Discover limitations of coil ignition system.	07
