Total Marks: 56



GUJARAT TECHNOLOGICAL UNIVERSITY

BE- SEMESTER-VI (NEW) EXAMINATION – WINTER 2020

Subject Code:2160208	Date:22/01/2021
Subject Name:Automotive computer controlled Systems	

Instructions:

- 1. Attempt any FOUR questions out of EIGHT questions.
- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.

Time:02:00 PM TO 04:00 PM

Q.1	(a) (b) (c)	Discuss the brief about fundamental parts of computer Explain Computer data and list the requirements for data transfer. Justify the statement "The Switching-off point is not affected by speed in electronic ignition system".	03 04 07
Q.2	(a) (b) (c)	What is duty cycle? Explain with example How fuel pressure is regulated in MPFI system? Explain with schematic diagram. Explain Evaporative emission control system	03 04 07
Q.3	(a) (b) (c)	Describe Liquid Crystal Displays. Which gates are used in vehicle Door? Explain in brief. List the logical gate with its figure and truth table.	03 04 07
Q.4	(a) (b) (c)	Explain optical sensor. Explain Engine coolant temperature sensor. Explain the basic principal of variable reluctance sensor.	03 04 07
Q.5	(a) (b) (c)	Write short note on Injector tests. Explain stepper motor operated air valve With neat sketch explain ABS actuators	03 04 07
Q.6	(a) (b) (c)	State the practical importance of sensors. Explain Digital Multi-meter. Explain on board diagnostic – II (OBD-II) tools.	03 04 07
Q.7	(a) (b) (c)	Explain LED List precaution when working with computer control system. Explain coded ignition key system.	03 04 07
Q.8	(a) (b) (c)	4 Give difference between Sensor, Transducer and Actuator. Explain JK flip-flop. Explain supplementary restraint system (SRS).	03 04 07
