

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-VI (NEW) - EXAMINATION – SUMMER 2016****Subject Code:2160208****Date:09/05/2016****Subject Name: Automotive computer controlled 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.

- Q.1** (a) List the logical gate with its figure and truth table. **07**
(b) Explain traction control system. **07**
- Q.2** (a) Explain computer controlled petrol fuel injection system. **07**
(b) Explain Evaporative emission control system **07**
- OR**
- (b) Write short note on Exhaust Gas Recirculation (EGR) system with neat sketch. **07**
- Q.3** (a) Explain computer memories. **07**
(b) Explain air flow measurement sensor. **07**
- OR**
- Q.3** (a) Explain the fundamental parts of computer (ECU). **07**
(b) Explain optical sensor. **07**
- Q.4** (a) Explain stepper motor operated valve. **07**
(b) Explain the basic principal of variable reluctance sensor. **07**
- OR**
- Q.4** (a) Explain solenoid operated valve. **07**
(b) Explain actuator operation. **07**
- Q.5** (a) Explain Digital Multi-meter. **07**
(b) Explain coded ignition key system. **07**
- OR**
- Q.5** (a) List precaution when working with computer control system. **07**
(b) Explain on board diagnostic – II (OBD-II) tools. **07**
