

Scheme – I
Sample Question Paper:

Programme Name : Automobile Engineering
Programme code : AE
Semester : VI Sem
Course Title : Autotronics
Marks : 70

22654

Time: 3Hrs.

Instructions:

- (1) All questions are compulsory.
- (2) Illustrate your answers with neat sketches wherever necessary.
- (3) Figures to the right indicate full marks.
- (4) Assume suitable data if necessary.
- (5) Preferably, write the answers in sequential order.

Q.1) Attempt any FIVE of the following.

(10 Marks)

- a) Enlist two types of diodes used in Automotive Electronics.
- b) State four types of Computer Memories used in Automotive applications.
- c) State the name of the sensor used in measurement of vehicle speed.
- d) Name the two types of computer controlled fuel injection systems used in modern vehicles.
- e) Give an example of particular DTC code found in vehicle diagnosis.
- f) Draw symbol of Photo-Diode.
- g) Identify the name of a communication system used for navigation purpose in modern automobiles.

Q.2) Attempt any THREE of the following.

(12 Marks)

- a) Draw block diagram of digital visual display in vehicle instrumentation.
- b) Convert the given decimal number 100.5 into binary number.
- c) Sketch and explain signal conditioning system used for oxygen sensor.
- d) Compare open loop and closed loop control system in automotive application.

Q.3) Attempt any THREE of the following.

(12 Marks)

- a) Illustrate with neat sketch the output signal waveform for Crank shaft position sensor.
- b) Draw block diagram of GDI system.
- c) Describe stand alone diagnosis procedure of coolant temperature sensor.
- d) Construct a block diagram for Common Rail Direct Injection system used in modern vehicles.

Q.4) Attempt any Three of the following.

(12 Marks)

- a) Explain with justification the use of Bluetooth technology as a communication system in automobiles.
- b) Answer the following (Refer Figure)

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