15AU71

(08 Marks)

Max. Marks: 80

a. What are sealed beam headlights? Explain the method of adjusting sealed beam headlights, (08 Marks)

b. Explain the construction and working of a balancing coil type of fuel gauge with the help of (08 Marks)

Module-4

What is ignition timing? Explain the various timing devices used to adjust the timing of an engine. (08 Marks)

b. Explain series system and parallel systems of hybrid vehicle systems with the help of a block diagrams. Also state their advantages. (08 Marks)

OR

8 a. With the help of a circuit diagram, explain central door locking. (08 Marks)
b. Describe the construction and working of air bag. What are the disadvantages associated with air bags. (08 Marks)

Module-5

9 a. With a neat sketch, explain the construction and working principle of sodium sulphur battery for electric vehicles.

(08 Marks)

(08 Marks)

b. What are the advantages and disadvantages of electric vehicles?

OR

a. Explain the working principle of proximity sensor with a neat sketch.
b. With a neat sketch, explain the working principle of Hall effect sensor.
(08 Marks)
(08 Marks)

2 of 2