

- Q.21 Write short note on Electric Vehicles. (CO6)
- Q.22 Write a short note on Lightning system used in Automobiles. (CO5)

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SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x8=16)

- Q.23 Explain with neat sketch wiring diagram of a modern car. What are various circuits in wiring diagram.
- Q.24 Explain the term air conditioning in Automobile. Explain with diagram.
- Q.25 Explain with neat sketch magneto Ignition System use in Automobiles? (CO3)

Subject : Auto Electrical System and Electric Vehicale

Time : 3 Hrs.

M.M. : 60

SECTION-A

Note: Multiple choice questions. All questions are compulsory (6x1=6)

- Q.1 Thermometer sensor is used for measuring. (CO6)
- a) Pressure
 - b) Temperature
 - c) Load
 - d) Volume
- Q.2 What is a maintenance -free battery?
- a) A battery having lead antimony plate grid.
 - b) a battery having lead cadmium plate grid.
 - c) A battery does not contain acid.
 - d) A battery does not contain water
- Q.3 The acid used in automobile battery is
- a) Hydrochloric acid
 - b) Hydrofluoric acid
 - c) Nitric acid
 - d) Sulphuric acid

Q.4 With the increase of battery temperature, the specific gravity of electrolyte. (CO2)

- a) Increase
- b) Decrease
- c) Remains the same
- d) None of these

Q.5 The value of Specific gravity of acid when a lead acid battery is fully charged is (CO3)

- a) 1.285
- b) 2.185
- c) 2.385
- d) none of the above

Q.6 Fuel gauge indicates fuel level in (CO5)

- a) Filter
- b) Carburettor
- c) Tank
- d) Nozzle

SECTION-B

Note: Objective/ Completion type questions. All questions are compulsory. (6x1=6)

Q.7 In scooters _____ Volt Battery is used (CO1)

Q.8 Write one method of testing of battery. (CO2)

Q.9 ABS Stands for _____ (CO2)

Q.10 Electrolyte Used in Lead Acid Battery is _____. (CO2)

Q.11 Write the function of Horn in Automobiles. (CO6)

Q.12 Define Earthing. (CO1)

SECTION-C

Note: Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

Q.13 What is Head lamp? What are various types of Head lamps used in Automobiles? (CO6)

Q.14 Write short note on Fuel cells used in Automobiles. (CO3)

Q.15 Write down various specifications of battery. (CO4)

Q.16 Explain Hydrometer test for Batteries. (CO4)

Q.17 What are common faults and remedies of Lighting system in Automobiles. (CO5)

Q.18 Write charging and discharging Equation of Lead Acid battery (CO2)

Q.19 What are various sensors used in Automobiles? Explain one in detail. (CO5)

Q.20 What are Hybrid vehicles? Explain hybrid vehicles with diagram. (CO5)