

- Q.30 What is the difference between battery and magneto ignition system? (CO4)
- Q.31 What are various indicators and warning lights in Automobiles? (CO4)
- Q.32 What is Starter Drive? What are types of starter drives in Automobiles? (CO3)
- Q.33 What is voltage regulator? Describe principle construction and working of voltage regulator. (CO4)
- Q.34 What are Various sensors used in Automobiles ? Explain one in detail. (CO5)
- Q.35 What is Head lamp? What are various types of Head lamps used in Automobiles? (Co6)

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SECTION-A

- Q.1 At the start of the engine, the charging voltage is _____ (CO1)
- a) Lower b) Higher
- c) Same d) Zero
- Q.2 What is maintenance-free battery? (CO2)
- a) A battery having lead antimony plate grid.
- b) A battery having lead calcium plate grid.
- c) A battery does not contain acid.
- d) A battery does not contain water.
- Q.3 The capacity of a battery is usually expressed in terms of _____ (CO2)
- a) Volts b) Amperes
- c) Weight d) Ampere Hours
- Q.4 The acid used in automobiles battery is _____ (CO2)
- a) Hydrochloric acid b) Hydrofluoric acid
- c) Nitric acid d) Sulphuric acid

- Q.5 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.6 The cause of Defective wiper may be (CO4)
 a) Wire disconnected b) Loose connection
 c) Blown d) Dirty switch contact
- Q.7 Thermocouple sensor is used for measuring (CO6)
 a) Pressure b) Temperature
 c) Load d) Volume
- Q.8 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.9 Fuel gauge indicates fuel level in (CO5)
 a) Filter b) Carburettor
 c) Tank d) Nozzle
- Q.10 Dynamo in an Automobile is a (CO3)
 a) series generator b) shunt generator
 c) both a and b d) none of the above

SECTION-B

Note: Objective type questions. All questions are compulsory. (10x1=10)

- Q.11 In buses _____ Volt Battery is used. (CO1)
- Q.12 What is the purpose of Odometer in an Automobile? (CO5)

- Q.13 Write one method of testing of battery. (CO2)
- Q.14 ECU stand for _____. (CO6)
- Q.15 Electrolyte Used in Lead Acid Battery is ____ (CO2)
- Q.16 Write the function of Horn in Automobiles.
- Q.17 Define Earthing. (CO1)
- Q.18 Meaning of Overheating is _____. (CO4)
- Q.19 In Automobiles Red colour wire indicates _____ wire (CO6)
- Q.20 Symbol of Fan used in Automobiles is _____ (CO4)

SECTION-C

Note: Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

- Q.21 Write various specifications of Battery. (CO1)
- Q.22 Write short note on Fuel cells used in Automobiles. (CO3)
- Q.23 What are starting requirements of SI. engine. (CO3)
- Q.24 Explain Hydrometer test for Batteries. (CO4)
- Q.25 Write various defects in Automobiles Battery. (CO2)
- Q.26 Write charging and Discharging Equation of Lead Acid Battery. (CO2)
- Q.27 What are common faults and remedies of Lighting system in Automobiles. (CO5)
- Q.28 Write short note on Electric Vehicles. (CO6)
- Q.29 What are Hybrid vehicles? Explain hybrid vehicles with diagram. (CO5)