

- Q.31 Explain the working principle of any one starting motor on an automobile.
- Q.32 Explain vertical and side control of lamps.
- Q.33 Described the electric fuel pump in brief.
- Q.34 Explain the function of heavy duty regulators.
- Q.35 Explain the earth return system in an automobile.

SECTION-D

- Note:** Long answer type questions. Attempt any two questions out of three questions. (2x10=20)
- Q.36 Explain the construction and working of Lithium ion battery in detail.
- Q.37 Explain construction and working of fuel gauges in detail.
- Q.38 Explain control of different sub system in modern automobiles using micro controller.

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Roll No.

6th Sem / Branch : Instrumentation & Control Engg.
Sub. : Auto Eletrical

Time : 3Hrs.

M.M. : 100

SECTION-A

Note: Multiple choice questions. All questions are compulsory (10x1=10)

- Q.1 Engine dynamo is usually driven by
 a) Chain drive b) Gear drive
 c) Flat belt drive d) V-belt drive
- Q.2 In an automobile the magneto is basically
 a) D.C. generator b) A.C. Generator
 c) Transformer d) Capacitor
- Q.3 The generator trouble are
 a) No charge b) Unsteady charge
 c) Overcharge d) All of the option
- Q.4 The capacity of a battery is usually expressed in terms of
 a) Volts b) Amperes
 c) Weight d) Ampere hours
- Q.5 Magnetic switch consists of _____.
 a) Battery b) Starting motor
 c) Plunger d) All of above

- Q.6 The door lock system functions are _____. (CO2)
- Lock and unlock the door
 - Key confine prevention
 - Security
 - All of the options
- Q.7 Tachometer is used in an automobile for _____.
- Measure the rotation speed
 - Device for counting
 - Both A & B
 - None of the above
- Q.8 Which one not used in automobiles?
- Tachometer
 - Fuel gauge
 - pH meter
 - Wattmeter
- Q.9 Dynamo in an automobiles is a
- Shunt generator
 - Series generator
 - Either of the above
 - None of the options
- Q.10 Speed meter is used in an automobile for _____.
- Measuring the distance
 - Speed of the vehicle
 - Both A and B
 - None of the above

SECTION-B

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

- Q.11 What is the function of rectifiers?
- Q.12 The purpose of voltage regulator is to _____.

- Q.13 What is a cut-out in an automobile?
- Q.14 what is the purpose of separator in battery?
- Q.15 What is the source of electrical energy in an automobile?
- Q.16 What is meant by the separator defects?
- Q.17 What means by the HT?
- Q.18 What is the function of defroster?
- Q.19 What is the function of fuse in an automobile?
- Q.20 _____ is used for measuring the voltage.

SECTION-C

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

- Q.21 What are the main circuits in electrical system of modern automobile?
- Q.22 Explain the working of an A.C. generator.
- Q.23 Describe the two unit regulator in brief.
- Q.24 What is the function of rectifier?
- Q.25 What is the purpose of cut-out relay?
- Q.26 Write the construction of heavy duty regulators.
- Q.27 How does the microprocessor work explain with diagram?
- Q.28 With the help of a neat sketch, describe a warning light.
- Q.29 Explain the working of speedometer.
- Q.30 Write a note on cut out relay.