

No. of Printed Pages : 4  
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180954B/170954B

**5th Sem / Branch : Electrical Engineering  
Sub.: Auto Electrical**

Time : 3Hrs.

M.M. : 100

**SECTION-A**

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

Q.1 Negative plate of lead Acid Battery is made of (CO2)

- a) PbO<sub>2</sub>
- b) Pb
- c) Ni
- d) Cd

Q.2 How many cells are used in 12v Battery? (CO1)

- a) 2
- b) 4
- c) 6
- d) 8

Q.3 \_\_\_\_\_ meter is used to measure RPM. (CO8)

- a) Hydrometer
- b) Multi meter
- c) Tacho meter
- d) Volt meter

Q.4 Electrolyte used in lead acid battery is \_\_\_\_\_. (CO2)

- a) KOH
- b) NaOH
- c) H<sub>2</sub>SO<sub>4</sub>
- d) H<sub>2</sub>O

Q.5 In Alternator which component Controls output (CO3)

- a) Voltage Regulator
- b) Diode
- c) Clipper
- d) Rectifier

Q.6 \_\_\_\_\_ is used to measure specific gravity (CO2)

- a) Hydrometer
- b) Ammeter
- c) Volt meter
- d) Multi meter

Q.7 \_\_\_\_\_ is used to show level of fuel (CO6)

- a) Fuel gauge
- b) Tacho meter
- c) Am meter
- d) Volt meter

Q.8 Ammeter is used to measure (CO1)

- a) Voltage
- b) Current
- c) Power
- d) All of above

Q.9 Earth wire is of color (CO1)

- a) Blue
- b) Red
- c) Green
- d) Black

Q.10 Capacity of Battery is given in (CO2)

- a) All
- b) Volt
- c) Ampere
- d) Watt

## **SECTION-B**

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

- Q.11 Define Battery. (CO1)  
Q.12 Define efficency. (CO1)  
Q.13 \_\_\_\_ supply is used for changing of Batteries.(CO2)  
Q.14 Write full form of HT. (CO5)  
Q.15 Define Network. (CO7)  
Q.16 Define over charging. (CO2)  
Q.17 Define Alternator. (CO3)  
Q.18 Define voltage Regulator. (CO3)  
Q.19 Define lamp mounting. (CO5)  
Q.20 Define Pressure gauge. (CO6)

## **SECTION-C**

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

- Q.21 Explain about earth return system. (CO1)  
Q.22 Explain use of Hydrometer in battery. (CO2)  
Q.23 What is difference between 6V and 12 V Battery. (CO1)

- Q.24 Write short note on lithium Ion battery. (CO2)  
Q.25 Discuss advantages of dynamo. (CO3)  
Q.26 What is starter motor? (CO4)  
Q.27 Name different types of switches. (CO4)  
Q.28 Explain working of Head lamp. (CO5)  
Q.29 Explain working of Bimettalic gauge. (CO6)  
Q.30 What is Horn Relay. (CO6)  
Q.31 Explain function of speed meter. (CO8)  
Q.32 Discuss the Electric door locking. (CO8)  
Q.33 What is difference between HT and LT cable. (CO5)  
Q.34 Explain AC system of auto mobile in brief. (CO8)  
Q.35 Discuss about control area network. (CO7)

## **SECTION-D**

**Note:** Long answer type questions. Attempt any two questions out of three questions. (2x10=20)

- Q.36 Explain construction and working of Lead Acid Battery. (CO2)  
Q.37 Explain wiring system of car with diagram. (CO5)  
Q.38 Explain construction and working of alternater. (CO2)