

# **AUTO ELECTRICIAN**

## **THEORY- II**

### **DYNAMO :**

Principle – use of slipping – solenoid slipping and functions of commutator parts of D.C. Generators – Self excited Generator series shunt and compound Generators function of dynamo in automobile – maintenance and trouble shooting.

### **REGULATOR :**

Automatic cut out and three unit regulator in a car

### **ENGINE STARTER :**

Purpose – type construction drive mechanism and control – inertia engagement starter – Axial type ( + ve engagement ) out board and in board engagement starter maintenance and trouble shooting.

### **IGNITION SYSTEM :**

Function of ignition system – magneto and coil ignition – principle and maintenance contact breakout – distributor – condenser – construction and function of each – High tension leads – firing order – Ignition – timing – automatic advance maintenance and trouble shooting of system.

### **SPARKPLUG :**

Type – construction – function and operation size and specification.

### **AUTOMOBILE WIRING PRACTICE :**

Type of switches – fuses, wires and cables used in cars – Standard wire gauge wiring system +ve earth and -ve earth system colour size – safe current carrying capacity of fuse – Fuse current rating and earthing.

### **ILLUMINATION :**

Requirement as per M.V rule for side light trafficator & tail light – name plate – destination route light saloon and head light fluorescent lighting inverter function.

### **ANCILLARY :**

Electric horn – wind screen wiper pilot indicator – warning lamps – Instrument panel light – Electric petrol pump.