

AUTOTRONICS PRACTICAL

DETAILED SYLLABUS

OBJECTIVES

- To study the functions of a Battery
- To study the various Electrical components of an automobile
- To study the various Electronics components used in an automobile

Exercises

Part - A

1. Removing, charging and replacing the Battery from a car.
2. Identification of various components of Ignition system. Dismantling and Overhauling of a Distributor, Setting Contact Breaker Points and Servicing of Spark Plugs.
3. Dismantling and Overhauling of a Starter Motor and a Dynamo.
4. Dismantling and Overhauling of an Alternator and Regulator. Subject Instructions Examination.
5. Servicing and tune up of the Horn and Wiper Motor.
6. Measurement of voltage, current and resistance by using multi-meter (both analog and digital) in all ranges.

Part - B

1. Testing the Battery: Hydrometer Test – Open Circuit Voltage and High Rate Discharge Testing.
2. Adjust the Beam of the Head Lamp.
3. Adjust the Ignition Timing with Timing Light and Start the engine.
4. Draw the characteristics of PN diode.
5. Construction of a half wave and full wave rectifier without filter.
6. Construction of a bridge wave rectifier without a filter.