

Mechanic



Complete all items in Section (A) or (B):

- (A)
1. Know the principles of operation of an internal combustion engine and understand the functions of the clutch, gearbox and rear axis differential of a motor car.
 2. Remove, clean and check the gap of a spark plug and show the plug can be used after cleaning.
 3. Show how to clean and install the separator, know the procedural steps and connect it to the spark plug accurately.
 4. Identify the circuit for each fuse in the car and charge a car battery.
 5. Check and top up the level of motor oil in the car.
 6. Remove and replace a road wheel and know the necessary precautions required.
- (B)
1. Install a transmitter radio that has at least two semi-conductors (use of kits is not permitted) with headphones. Draw the circuit map for the radio and explain to the assessor the use of main parts.
 2. Show the proper use of small soldering equipment and know the special points to note in soldering transistor and printed circuits.
 3. Know the source of electricity for use in a radio especially alternating current and direct current.
 4. Know how to repair simple problems in a radio for family use, such as repairing a damaged on/off switch, how to tune the channels.
 5. Briefly talk about the licence requirements for wireless control models, amateur radio broadcasts and family use wireless radio.