



# **DIPLOMA IN MECHANICAL ENGINEERING**

## **CENTRALIZED QUESTION BANK**

**4020653 - Automobile Technology Practical**

**DIRECTORATE OF TECHNICAL  
EDUCATION GOVERNMENT OF  
TAMILNADU**

## **DIPLOMA END SEMESTER / YEAR EXAMINATION – 2023**

**Course :** Mechanical Engineering

**Subject :** Automobile Technology Practical

**QP Code :** 4020653

**Time : 3 Hours Date :**

**Session:**

**Max Marks:** 100

### **ANSWER ALL THE QUESTION**

1. a) Removing, servicing and replacing of fuel pump, oil pump & water pump. (45 Marks)  
b) Trace the automobile electrical system with respect to battery coil ignition system (45 Marks)
2. a) Dismantling and assembling of four stroke petrol engine and identification of parts. (45 Marks)  
b) Trace the automobile electrical system with respect to (i) horn relay circuit, (ii) Wiper circuit & explain with neat circuit diagram. (45 Marks)
3. a) Test a battery with specific gravity test and charge the battery with constant amperage / voltage method. (45 Marks)  
b) Dismantling, inspecting and assembling of constant mesh gear box and find out the gear ratios. (45 Marks)
4. a) Removing camshaft, replacing timing gears, removing valves, lapping and adjusting valve clearance. (45 Marks)  
b) Dismantling, assembling and adjusting of steering gear box. (45 Marks)
5. a) Removing, servicing & replacing MPFI system. (45 Marks)  
b) Removing and replacing of pressure plate and clutch plate, fingers adjustment (45 Marks)
6. a) Dismantling and assembling of inline fuel injection pump / CRDI system. (45 Marks)  
b) Dismantling, overhauling and assembling of starter motor/ alternator (45 Marks)