



# **DIPLOMA IN AUTOMOBILE ENGINEERING**

**CENTRALIZED QUESTION BANK**

**4021652 – HEAVY VEHICLE ENGINEERING  
PRACTICAL**

**DIRECTORATE OF TECHNICAL  
EDUCATION GOVERNMENT OF  
TAMILNADU**

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

**Course** : Automobile Engineering

**Subject** : Heavy Vehicle Engineering Practical

**QP Code** : 4021652

**Time** : 3 Hours    **Date** :

**Session:**

**Max Marks:** 100

### **Answer the Following Questions**

1. Check the charging system of a heavy vehicle. List the causes of charging system failure.
2. Check the starting system of a vehicle. Prepare the list of problem occurs and mention the possible causes, tests and remedies.
3. Check the head light of a vehicle for i) adjustment, ii) replacement and iii) bulb replacement.
4. Check the windshield wiper of a vehicle. List the symptoms, causes and remedy.
5. Inspect the clutch linkage system and clutch of a heavy vehicle. List the failure and possible causes and remedy / adjustment.
6. Inspect the standard transmission of a heavy vehicle. Carryout the preventive maintenance inspection on standard transmission.
7. Inspect the drive shaft of a heavy vehicle. List the failure and possible causes and remedy/adjustment.
8. Inspect the power steering system of a heavy vehicle. List the failure and possible causes and remedy / adjustment.
9. Check, measure and adjust the caster, chamfer, king pin inclination, toe-in and toe-out using Wheel alignment.
10. Inspect the suspension system of a heavy vehicle. Carry out the preventive maintenance inspection.
11. Check the air disc brake system of a heavy vehicle. List the symptoms, causes and remedy.
12. Check the hydraulic brake system of a heavy vehicle. List the symptoms, causes and remedy.

**DETAILED ALLOCATION OF MARKS:**

<b>S.No</b>	<b>Description</b>	<b>Max. Marks</b>	<b>Marks obtained</b>
1	Procedure	10	
2	Inspection/Diagnostic report	30	
3	Symptoms and Causes report	25	
4	Remedies/Maintenance report	25	
5	Viva voce	10	
	Total	100	