



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, camber, 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:

S.No	Description	Max. Marks	Marks obtained
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	