



**DIPLOMA IN ELECTRICAL ENGINEERING AND
ELECTRIC VEHICLE TECHNOLOGY**

CENTRALIZED QUESTION BANK

1032234620- MOTOR DRIVES AND CONTROL FOR EV

**DIRECTORATE OF TECHNICAL
EDUCATION GOVERNMENT OF
TAMILNADU**

DIPLOMA END SEMESTER / YEAR EXAMINATION – 2025

Course: Electrical Engineering and Electric Vehicle Technology

Subject : Motor Drives and Control For EV

QP Code :1032234620

Time : 3 Hours

Date :

Session:

Max Marks:100

Answer the Following Questions

1. a. Conduct Load Test on DC Shunt Motor and Draw the Performance Curve.
 b. Reverse the direction of rotation of the DC shunt motor.
2. Conduct Load Test on DC Series Motor and Draw the Performance Curve
3. Conduct Speed Control of DC Shunt Motor by
 - a. Armature Control Method
 - b. Field Control Method
4. Conduct Load Test on Single Phase Transformer.
5. Conduct Load Test on a Single phase induction motor and plot the performance curve.
6. Conduct Load Test on Three Phase slip ring Induction Motor.
7. Conduct Load Test on Three Phase Squirrel cage Induction Motor.
8. Conduct the No-load and Blocked-rotor tests on give three phase squirrel cage induction motor.
9. Connect and run the three phase squirrel cage induction motors (in both directions) using the DOL starter, Star delta starter and autotransformer starter.
10. Control the speed of the given three phase squirrel cage / slip ring induction motor using below any one method:
 - i) Auto-transformer (or)
 - ii) VVVF.
11. Test the given Stepper motor drive.
12. Test the given Servo motor drive.

Allocation Of Marks

Sl. No	Description	Marks
1	Aim & Apparatus Required	10
2	Circuit Diagram	25
3	Connections	25
4	Execution and Output / Result	30
5	Viva Voce	10
Total		100