



DIPLOMA IN ELECTRICAL AND ELECTRONICS ENGINEERING

CENTRALIZED QUESTION BANK

**1030234620 - ELECTRICAL MACHINES II
PRACTICAL**

**DIRECTORATE OF TECHNICAL
EDUCATION GOVERNMENT OF
TAMILNADU**

DIPLOMA END SEMESTER / YEAR EXAMINATION – 2025

Course: Electrical and Electronics Engineering

Subject : Electrical Machines II Practical

QP Code : 1030234620

Time : 3 Hours

Date :

Session:

Max Marks: 100

Answer the following Questions

- 1 Conduct Load test on 3 Phase Alternator and plot the load characteristics curve.
- 2 Predetermine the Regulation of Three Phase Alternator by EMF method.
- 3 Perform Synchronization of 3 Phase Alternators by
 - a) Lamp method
 - b) Synchroscope method
- 4 Conduct Load Test on a three phase squirrel cage induction motor and plot the performance curve.
- 5 Conduct Load Test on a three phase slip-ring induction motor and plot the performance curve.
- 6 Find the equivalent circuit constants of a three phase induction motor by conducting No-Load and Blocked Rotor tests.
- 7 Demonstrate that power factor of an induction motor load is improved by connecting capacitor bank.
- 8 Conduct Load Test on a single phase induction motor and plot the performance curve.
- 9 Conduct and Experiment to obtain the 'V' curve and inverted 'V' curve of synchronous motor.
- 10 Perform Winding of primary and secondary coils of 230V/12V, 500m A Transformer. Insert suitable cores and Check the output voltage.
- 11 Make end connection to a three phase induction motor winding for a two pole/four pole operations and verify the output.

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