ELECTRICAL MACHINES-1

List of Experiments

- 1. (a)To obtain the open circuit characteristics of a self-excited DC shunt generator
 - (b)To conduct a load test on DC Shunt Generator and to draw its load characteristics form the obtained data.
- 2. To conduct load test on a DC Series Motor and to find its efficiency
- 3. To conduct load test on A DC shunt motor and to find its Speed torque characteristics and efficiency
- 4. To obtain speed control of DC shunt motor by
 - (a) Varying armature voltage with field current constant
 - (b) Varying field current with armature voltage constant
- 5. To determine the efficiency and regulation of a 1-Ø transformer by conducting
 - (a) Open circuit test and short circuit test and to draw equivalent circuit.
 - (b) To determine the efficiency and voltage regulation of a single phase transformer by load test.
- 6. To check the polarity of given single phase transformer and to check the parallel operation of the two transformers.
- 7. To obtain a balanced two phase supply from three phase system by using Scott connection
- 8. To obtain efficiency and regulation of a single phase transformer by Sumpner's (back to back) test.