## ID NO.



## PRESIDENCY UNIVERSITY, BENGALURU SCHOOL OF ENGINEERING

Weightage: 30 % Max Marks: 30 Max Time: 2 hrs. 18 May Friday 2018

## **ENDTERM FINAL LAB EXAMINATION MAY 2018**

Even Semester 2017-18 Course: **EEE 255 Electrical Machines Lab** IV Sem. Electrical

- 1. Conduct Hopkinson's test and predetermine the efficiency of a DC Shunt Generator at half load.
- 2. Conduct Hopkinson's test and predetermine the efficiency of a DC Shunt Motor at quarter load
- Conduct Hopkinson's test and predetermine the efficiency of a DC Shunt Motor at half load.
- 4. Conduct Swinburne's test and predetermine the efficiency of a DC Shunt Generator at half load.
- 5. Conduct Swinburne's test to predetermine the efficiency of a DC Shunt Motor at quarter load.
- 6. Conduct Hopkinson's test to obtain the efficiency characteristic of a DC Shunt Motor.
- 7. Conduct a suitable experiment to find the Output Power and Torque of a three phase Synchronous Motor at half load.
- 8. Conduct a suitable experiment to draw the Output Power Vs Speed of a three phase Synchronous Motor.
- 9. Conduct a suitable experiment to draw the Output Power Vs Efficiency of a three phase Synchronous Motor.
- 10. Conduct a suitable experiment to draw the Output Power Vs Line Current of a three phase Synchronous Motor.
- 11. Conduct a suitable experiment on a three phase Synchronous Motor to find the field current at UPF.
- 12. At 0.4 amp excitation find the total input power and pf of the three phase Synchronous Motor.
- 13. Conduct a suitable experiment to draw the Output Power Vs Power factor of a three phase Synchronous Motor.

- 14. Conduct a suitable experiment to find the torque and pf of a three phase Synchronous Motor at half load.
- 15. Conduct a suitable experiment to draw the V curve of a three phase Synchronous Motor.
- 16. Conduct a suitable experiment to draw the inverted V curve of a three phase Synchronous Motor.
- 17. Conduct a suitable test to draw the internal characteristic of a DC Shunt Generator
- 18. Conduct a suitable test to draw the internal characteristic of a DC Shunt Generator and hence find the armature reaction drop at half load.
- 19. Conduct a suitable test to find the total voltage drop of a DC Shunt Generator at half load.