## T.E.(Electrical Engineering) COMPUTER AIDED DESIGN OF ELECTRICAL MACHINES (2019Pattern) (Semester-VI)

- 1. State and explain various types of oil cooled transformers.
- 2. Derive output equation with usual notation of three phase induction motor.
- 3. Explain in brief harmonic field effects on performance of three phase induction motor.
- 4. Write a note on production of mechanical forces developed in transformers.
- 5. Write short note on effect of various factors for deciding choice of average flux density in air gap.
- 6. Explain in brief clogging, crawling and unbalanced magnetic pull for three phase induction motor.
- 7. Write short note on
  1) Zigzag leakage reactance 2) Slot leakage reactance 3) Overhang leakage reactance
- 8. Write short note on generalized flow chart for design of transformer.
- 9. Explain Design of rotor slots, size of bars and end rings for cage rotor.
- 10. Explain effect of duct on calculation of magnetizing current in three phase induction motor.
- 11. Explain the method of calculation of magnetizing current of three phase induction motor.
- 12. Write short note on design of squirrel cage rotor.