

Code No: 54012

R09

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B.Tech II Year II Semester Examinations, November/December - 2020

ELECTRICAL MACHINES – II
(Electrical and Electronics Engineering)

Time: 2 hours

Max. Marks: 75

Answer any five questions
All questions carry equal marks

- 1.a) Draw the no load phasor diagram of a transformer. Explain.
b) Compare between Core type and Shell type transformers. [7+8]
2. Define efficiency. State different losses of a transformer. Derive the condition for maximum efficiency of a single phase transformer? [15]
3. Explain the parallel operation of single phase transformers with equal and unequal voltage ratios. [15]
4. With necessary phasor diagrams, prove that a three phase system can be established from a two-phase system using T-T connection. [15]
- 5.a) With the help of neat diagrams, explain constructional details of cage and wound rotor Induction Motor.
b) The power input to the rotor of a 440 V, 50 Hz, 3-phase, 6-pole induction motor is 50 kW. It is observed that the rotor e.m.f. makes 120 complete cycles per minute. Calculate: (i) Slip, (ii) Rotor speed, (iii) Rotor copper loss/phase, (iv) Rotor resistance per phase. [8+7]
6. Establish a relation between full load torque and maximum torque of a three phase induction motor. [15]
7. With a neat sketch, explain the operation of star-delta starter. Also mention its limitations. [15]
8. Explain in detail the different methods for the speed control of induction motor. [15]

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Siddappa N.Byrareddy



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