

GUJARAT TECHNOLOGICAL UNIVERSITY

B.E. Sem-III Remedial Examination March 2010

Subject code: 131701**Subject Name: ELECTRICAL MACHINES**

Date: 11 /03 /2010

Time: 11.00 am – 01.30 pm

Total Marks: 70

Instructions:

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1 (a) A d.c. shunt generator delivers 450 Amp at 230V and the resistance of the shunt field and armature are 50Ω and 0.03Ω respectively. Calculate the generated emf. 07
- (b) Explain following characteristic of separately excited d.c. generator. 07
- (i) No-load saturation characteristic
- (ii) Internal and External characteristic
- Q.2 (a) Explain armature reaction of the d.c. machine. Give its remedies also. 07
- (b) Explain in brief various methods of speed control of d.c. shunt motors. 07
- OR**
- (b) Explain working principle of d.c. motor. Derive the condition for maximum Power. 07
- Q.3 (a) Explain the conditions of parallel operation of three phase transformers. 07
- (b) How three phase to two phase transformation of transformer is obtained? 07
- OR**
- Q.3 (a) In no load test of single phase transformer, the following test data were obtained. 07
- Primary voltage: 230V, Secondary voltage: 110V,
Primary current: 0.5A, Power input: 30W.
Find the following:
- (i) The turns ratio
- (ii) The magnetizing component of no-load current
- (iii) It's working (or loss) component
- (iv) The iron loss
- Resistance of primary winding = 0.6Ω
- (b) Write advantages and applications of auto transformer. 07
- Q.4 (a) Derive torque equation for three phase induction motor. Also derive condition for maximum torque and equation for maximum torque. 07
- (b) Draw torque-speed characteristic of induction motor. Also explain change in it with change in rotor resistance and frequency. 07
- OR**
- Q.4 (a) Explain rotating magnetic field theory. Also explain how three phase induction motor starts. 07
- (b) Explain speed control of three phase induction motor. 07
- Q.5 (a) Compare star-delta starter with auto transformer starter for three phase induction motor. 07
- (b) Explain why single phase induction motor is not self started? Explain the starting methods for single phase induction motor in brief. 07
- OR**
- Q.5 (a) What is commutation? Give remedies for commutation. 07
- (b) Explain various types of losses occurring in a d.c generator. 07

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