

**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  $50\Omega$  and  $0.03\Omega$  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 =  $0.6\Omega$
- (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**
- \*\*\*\*\*

# Gtu Paper Solution For Be 3rd Sem

**Léo Pomar**



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