

Enroll No

K.E.Society's
Rajarambapu Institute of Technology, Rajaramnagar
 (An Empowered Autonomous Institute, affiliated to SUK)
Unit Test -II (2025-26)

Q.P. Code
UT 3088

S.Y. B.Tech.-Electrical Engineering

Course Code: EE2014

Course Name: DC Machines and Transformer

Day & Date: Thursday, 18/09/2025

Time: 11:45 PM to 12:45 PM

Max Marks- 25

Instructions: 1) All questions are compulsory.

2) Figures in rounded() brackets within the question, indicate the scheme of marking for respective part of the question, whereas, figures in the first right column indicate total marks for that whole question.

3) CO is the index number of the Course Outcome statement.

4) The Bloom's taxonomy level (BL) for 1,2,3,4,5 and 6 is remember, understand, apply, analyze, evaluate and create respectively.

5) Assume suitable data if necessary.

6) Use of non-programmable calculators is allowed

		Marks	BT Level	COs
Q.1	A With a neat sketch (03), an elaborate working principle (04) of the Auto-Transformer.	07	2	CO2
	B Draw (03) and explain (03) the ONAN cooling system of the Transformer.	06	2	CO2
OR				
	B Draw (03) and explain (03) the ONAF cooling system of the Transformer.	06	2	CO2
Q.2	A State different types (02) of DC Motors and explain (04) any one of them	06	2	CO3
	B An eight pole lap wound DC generator has 960 conductors, a flux of 40 m Wb per pole and is driven at 400 rpm. Find OC emf (03). Also find the OC emf in case of Wave wound winding connection (03).	06	5	CO3

