

DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE –
RAIGAD -402 103
Winter Semester Examination – December - 2019

Branch: Electrical Engineering

Sem.:- III

**Subject: -Testing and Maintenance of Electrical Equipment
(BTEEEEC505C)**

Marks: 60

Date: - 16/12/2019

Time: - 3Hr

Instructions to the Students

1. Each question carries **12 marks**.
2. Attempt **ANY FIVE** questions of the following.
3. Illustrate your answers with neat sketches, diagram etc., wherever necessary.
4. If some part or parameter is noticed to be missing, you may appropriately assume it and should mention it clearly

		Marks
Q.1	a) State the objectives of testing of machines? Explain in brief routine test, type test, special test and supplementary test?	(06)
	b) Distinguish between routine and break down maintenance of electrical equipments.	(06)
Q.2	a) Explain the maintenance schedule for induction motor as per IS 900	(06)
	b) Explain the procedure for developing preventive maintenance schedule.	(06)
Q.3	a) Explain the vector group test of three phase transformer. Draw Vector group connections of Dy11 and Dy7	(06)
	b) Explain the blocked rotor test of three phase induction motor	(06)

- Q.4** a) Explain the transformer oil testing as per IS 1692 (06)
- b) Define Bus bar scheme. Explain Single bus bar arrangement with bus Sectionalization with merits and demerits. (06)
- Q.5** a) What is an Electrical Earthing? Explain the importance of Electrical Earthing with suitable example? (06)
- b) State the methods of electrical earthing. Draw and Explain Plate earthing in detail. (06)
- Q.6** a) Write Troubleshooting chart of 3 Ph. Induction Motor (06)
- b) Write Troubleshooting chart of D.C. Motor (06)

*****End of the Paper*****