

DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE			
End Semester Examination – Winter Dec 2022			
Course: B. Tech		Branch: Electrical	Semester : V
Subject Code & Name: BTEEE505 C & Testing and Maintenance of Electrical equipment.			
Max Marks: 60		Date:	Duration: 3 Hr.
<i>Instructions to the Students:</i>			
1. All the questions are compulsory.			
2. The level of question/expected answer as per OBE or the Course Outcome (CO) on which the question is based is mentioned in () in front of the question.			
		(Level/CO)	Marks
Q. 1	Solve Any Two of the following.		12
A)	Describe the Procedure for Developing a preventive maintenance Schedule	(L2/CO1)	6
B)	What are the different methods of testing? Explain each in brief.	(L2/CO1)	6
C)	List out various factors affecting preventive maintenance	(L3/CO1)	6
Q.2	Solve Any Two of the following.		12
A)	Explain the Maintenance schedule for the power transformer as per IS 11028	(L3/CO2)	6
B)	Describe the Maintenance schedule for the r induction motor as per IS 900	(L2/CO2)	6
C)	Explain the Maintenance schedule for synchronous motor as per IS 4884	(L2/CO2)	6
Q. 3	Solve Any Two of the following.		12
A)	Draw and explain DC resistance Test on the Transformer.	(L2/CO3)	6
B)	Elaborate momentary over-loss test of Induction motor	(L3/CO3)	6
C)	What are the different types of polarity in the transformer draw the circuit for each of them?	(L4/CO3)	6
Q.4	Solve Any Two of the following.		12
A)	Give the complete Classification of insulating material ?	(L3/CO4)	6
B)	Classify substation on the basis of supply voltage. Also draw a simple lay out of any substation	(L3/CO4)	6
C)	What are the different Causes of cable failure in testing of power cables?	(L3/CO4)	6
Q. 5	Solve Any Two of the following.		12
A)	Write down the trouble shooting and maintenance schedule of electric oven microwave.	(L2/CO6)	6
B)	Write down the difference between Clearance and Creepage.	(L3/CO5)	6
C)	State and explain the construction, working, troubleshooting and maintenance of Fan	(L2/CO6)	6

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