

USN	OF T	17EE752
AND STREET	Comment of	Seventh Semester B.E. Degree Examination, July/August 2022
Testing & Commissioning of Power System Apparatus		
Tir	Will	Max. Marks: 100
45	ALOR'	
Note: Answer any FIVE full questions, choosing ONE full question from each module.		
		Charles 1
-	_	Module-1 List the tools and equipments required for transformer installation work. (08 Marks)
1	a. b.	List the method of artificial respiration. (04 Marks)
	C.	Describe the transformer's terminal marking plates. Indicate tapping and connectors.
	٠.	(08 Marks)
		OR
2	a.	Mention the physical and electrical properties of insulating oil. With sketch, explain the
	b.	procedure of filling oil in transformer tank. (10 Marks)
	υ.	Explain the test set up for impulse testing of power transformer. (10 Marks)
		Module-2
3	a.	List the general specifications of synchronous machines. Explain how synchronous
	-	machines will be dryed out. (12 Marks)
	b.	With block diagram, explain excitation system for synchronous machine. (08 Marks)
		OR
4	a.	What is the objective of performance tests? Explain open circuit test and short circuit ratio
	L	tests performed on synchronous machine. (10 Marks) Explain how negative phase sequence test is conducted on synchronous machine? Mention
	b.	the modes of temperature measurements of various parts of synchronous machine. (10 Marks)
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		Module-3
5	a.	List out the specifications of synchronous machines. Mention the various steps involved in
		installation of an alternator. (10 Marks)
	b.	With block diagram, explain the functioning of static excitation system in synchronous
		machine. Explain the purpose of cooling in synchronous machines. (10 Marks)

OR

- Define short circuit ratio of a synchronous machine. What is its significance? Explain the (10 Marks) procedure finding the SCR of a synchronous machine.
 - Explain how drying out of synchronous machines are carried out. Explain the open circuit (10 Marks) test of a synchronous machine.

Module-4

- Explain the Radar method of locating cable fault. (10 Marks) 7
 - State the factors to be considered while selecting a cable. State the various classifications of cable boxes / cable joints / cable terminations. (10 Marks)

OR

- 8 a. Describe the steps to be taken after occurrence of fault in underground High Voltage Cable.
 (10 Marks)
 - b. List the various jointing techniques used in UG cables. What precautions are necessary in cable jointing? (10 Marks)

Module-5

- 9 a. Give the specifications of High Voltage circuit brakers? Explain the tests to be carried out at site on circuit breakers before commissioning. (10 Marks)
 - b. Enumerate the ratings of low voltage circuit breakers. List the tests to be carried out on low voltage circuit breakers. (10 Marks)

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- 10 a. Bring out the possible trouble causes and corrective actions for outdoor circuit breakers.

 (10 Marks)
 - b. Explain methods used to measure earth resistance. List the IE rules for domestic installation.
 (10 Marks)

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