Printed Pages - 4

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APR-MAY 2022

B. E. (Eighth Semester) Examination, 2020

(New Scheme)

(Elect, Engg. Branch)

INSTALLATION, MAINTENANCE & TESTING of ELECTRICAL EQUIPMENTS

Time Allowed: Three hours

Maximum Marks: 80

Minimum Pass Marks: 28

Note: Attempt part (a) and any two parts from (b), (c) and (d) of each question.

Unit-I

- 1. (a) Define programmed preventive maintenance.
 - (b) What are the recommented safety precautions against electrical shocks in HV installations? Explain, 7

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(c)	Explain erection, operation and maintenance of SF ₆ circuit breakers.	7
(d)	Explain the trouble shooting of substation equipments.	7
2	Unit-IV	
(a)	How the insulation resistance measurement is done in electric motors?	2
(b)	Give the stepwise analysis of installation and commissioning of an induction motor.	7
(c)	Enlist the four standard designation for degree of cooling and explain each of them.	7
(d)	What are the various mechanical and electrical troubles causes and remedial actions for an electric	
	motor.	7
	Unit-V	14
(a)	Give the names of tools used for hot line maintenance	. 2
(b)	Explain various types of Hot line operations.	7
(c)	What are the safety precautions and procedures	

- (c) Name the site activities during the project. Explain one by one activities during all the phases of the project. 2+5
- (d) Give the safety procedures and precautions during operation and maintenance phases of the project. 3+4

Unit-II

- 2. (a) List the various inspection steps for a newly arrived power transformer.
 - (b) What is the procedure of filling oil in the transformer tank? Explain transformer oil filteration plant. 3+4
 - (c) What do you mean by drying out of power transformer? Explain drying out of transformer without oil. Give the procedure of drying out of transformer oil.
 - (d) What are the typical maintenance schedule for transformer above 1000 kVA?

Unit-III

- 3. (a) What is type test? Where it is done?
 - (b) What are the troubles, causes and remedial actions for outdoor circuit breakers? 2+2+3

applied during Hot line maintenance?

(d) Explain the five safety precautions used as per the location of accidents briefly. Where do we use dry powder type five extinguishes and why?

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