324833(24)

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: Part (a) of each question is compulsory and carries 2 marks. Attempt any two parts from (b), (c) and (d). Each of them carries 7 marks each.

Unit-I

1. (a) What do you mean by preventive and corrective maintenance?

	(b)	Explain types and scope of maintenance.	7
	(c)	Discuss recommended safety precautions against	
		electric shocks in LV and HV installation.	7
	(d)	What do you mean by safety management? Write	
		down various principles of safety management.	7
		Unit-II	
2.	(a)	What parameters information are given on the trans-	
		former's name plate?	2
	(b)	Write maintenance schedule of transformer upto	
		10000 kVA.	7
	(c)	Explain the filtering process and filtering plant for	
		transformer oil filtration with schematic diagram.	7
	(d)	Write important steps in maintenance of power	
		transformer and causes of failure.	-
		Unit-III	
3.	(a)	Define Type test, routine test and commissioning	
		tests.	2

	(b)	Explain trouble shooting of substation equipments.	7		
	(c)	Write maintenace procedure of SF ₆ circuit breaker.	7		
	(d)	Discuss troubles, causes and remedial action for outdoor circuit breaker in brief.	7		
Unit-IV					
4.	(a)	Why the test for degree of protection is necessary?	2		
	(b)	State the various steps in the installation and commissioning of induction motors.	7		
	(c)	Write drying out procedure of rotating electrical equipments.	7		
	(d)	Explain the mechanical maintenance of motor	7		
		Unit-V			
5.	(a)	What do you mean by hot line maintenance?	2		
	(b)	Explain various types of hot line operation.	7		
	(c)	Write safety procedures during hot line maintenance.	7		
	(d)	Explain Dry powder type fire extinguisher	7		
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