Seat No: _____

Enrollment No: _____

PARUL UNIVERSITY FACULTY OF ENGINEERING & TECHNOLOGY B.Tech. Summer 2021 – 22 Examination

	B.Tech. Summer 2021 – 22 Examination		
	ster: 8	Date: 28/03/2022	
Subj	ect Code: 203106451	Time: 10:30 am to 01:0	0 pm
Subj	ect Name: Electrical Installation maintenance & Testing	Total Marks: 60	
Instr	uctions:		
1. Al	questions are compulsory.		
2. Fig	gures to the right indicate full marks.		
3. Ma	ke suitable assumptions wherever necessary.		
4. Sta	rt new question on new page.		
Q.1	Objective Type Questions - (Fill in the blanks, one word answer, MCQ-not more than Five in case of MCQ) (All are compulsory) (Each of one mark) 1. Which of the following to be done before commissioning?		(15)
	a) Fitting of accessories b) Filling of oil c) Both a & b	d) None of above	
	2. The surge resistance of cable is closed to?		
	a) 1 ohm b) 25 ohm c) 10 ohm	d) 100 ohm	
	3. Which of the following insulation is used in cables?	u) 100 0iiii	
a) Varnished cambric b) High dielectric strength c) high mechanical strength d) all			
	these	anie a strengen a) an or	
	4. The insulating material for cable should have?		
	a) low cost b) Filling of oil c) Both a & b	d) None	
	5. The size of the conductor of power cables depends on?	u) 1 (olio	
	a) Types of insulation b) current c) voltage	d) power factor	
	6.Full form of ELCB	-,	
	7.lightining arrestors are used for		
	8.Full form of MOCB		
	9. Working principal of Induction Motor		
	10.Isolator is used for		
	11. 4 pole, 50 HZ 1 phase induction motor Find the speed of motor		
	12. List out equipment used in substation.		
	13. Why capacitor bank is used?		
	14. What is the use of Current Transformer		
	15. What is the efficiency of ideal Transformer?		
Q.2 Answer the following questions. (Attempt any three)			(15)
	A) List out Different types of tests carried on Transformer. Explain Insulation resistance test.		
	B) Explain Trouble shooting of synchronous machine.		
	C) List down the characteristic of Transformer oil.		
	D) Explain Test on Lightning Arrester.		
Q.3	A) Explain the Trouble shooting of Circuit breaker.		(07)
	B) Explain the installation step for Synchronous Machine.		(08)
OR			
	B) Explain the open circuit test (OCC) and short circuit test (SCC) of Syn	chronous Machine.	(08)
Q.4	A) Explain Impulse testing		(07)
OR			
	A) Explain the polarity test of Transformer.		(07)
	B) Explain the working of Induction Motor and type of routine test on Ind	uction motor	(08)