Enrollment	No:	Exam Seat No:	
	C.U.SHAF	I UNIVERSITY	
	Summer E	Examination-2019	
Subject Nan	ne: Testing and Commission	ing of Electrical Machines	
Subject Cod	le: 4TE06TCM1	Branch: B.Tech (Electric	cal)
Semester: 6	Date: 29/04/2019	Time: 10:30 To 01:30	Marks: 70
(2) Instr (3) Dray	_	c any other electronic instrument is per book are strictly to be obeyed. f necessary) at right places.	prohibited.
Q-1	Attempt the following ques	stions:	(14)
b) c)	Swinburne's test can be perfected any load (b) (c) only half load (d) A transformer oil must be frected as ludge (b) (c) gases (d) Efficiency of a power transformation (a) 100 per cent (b) 98 per cent (c) 50 per cent (d) 25 per cent	ctor made of material. (Fill the lormed at only no load ) any of the above ee from ) odour ) moisture ormer is of the order of	
g) h)	damage to  (a)Winding Insulation (c) Core bolt	rise in the transformer causes in (b)Bushings (d)Core laminations f an alternator is used to find its	maximum
i)	<ul><li>(b) armature resistance</li><li>(c) efficiency</li><li>(d) Voltage regulation.</li></ul>	cuit breaker is usually expressed	in terms
j)	(c)Volts (d)MV The usual test to determ test		motor is



		(c) Hopkinson's (d) Swinburne			
	k)	,			
		speed is called motor			
		(a) charge (b) dc			
		(c) synchronous (d) universal			
	1)	The efficiency of a 3-phase induction motor is approximately			
		proportional to			
		(a) $(1-s)$ (b) s			
		(c) N (d) Ns			
	m)	For which among the following the current ratings are not required?			
		(a) Circuit breakers (b) Relays			
		(c) Isolators (d) Load break switch			
	n)	The dielectric strength of transformer oil is excepted to be			
		(a) 11 kV (b) 33 kV			
		(c) 100 kV (d) 330 kV			
Atter	npt any	four questions from Q-2 to Q-8			
Q-2		Attempt all questions	(14)		
	<b>(a)</b>	Explain the tan delta test on transformer.	<b>(07)</b>		
	<b>(b)</b>	Explain the significance of the load losses (short-circuit losses) of power	<b>(07)</b>		
		transformers and the method of short-circuit test for loss measurement.			
Q-3		Attempt all questions	(14)		
	(a)	Explain Hopkinson's test for determination of efficiency of DC shunt	<b>(07)</b>		
		machine.			
	<b>(b)</b>	Explain commissioning steps for DC machine.	(07)		
Q-4		Attempt all questions	(14)		
	(a)	What is polarisation index? What is its significance?			
	<b>(b)</b>	Explain the classification of various tests performed on induction motor.	(07)		
Q-5		Attempt all questions	(14)		
	(a)				
	<b>(b)</b>	Explain field test on two identical dc series machines.	(07)		
Q-6		Attempt all questions	(14)		
	(a)	Explain temperature rise test on bus bar.	<b>(07)</b>		
	<b>(b)</b>	Explain process of measuring earth resistance.	(07)		
Q-7		Attempt all questions	(14)		
	(a)	State the characteristics of transformer oil. Explain the testing of	<b>(07)</b>		
	<b>(b)</b>	transformer oil. Explain drying out process of synchronous machine.	(07)		
Q-8		Attempt all questions	(14)		
Q-0	(a)	Attempt all questions Explain Murray loop test and warley loop test.	(14) (07)		
	(a) (b)	Explain testing and commissioning of lightning arrestor.	(07)		
		Dapiem count and commissioning of fighting affector.	(01)		

