
SLR-TJ - 390

Seat No.		Set	Р
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-	d Date : Wednesda 3.00 p.m. to 6.00 p.	-		Max. Marks:	100
,	m o 2) A	ninutes in Answer L ne mark. nswer MCQ/Objed	Book Page No. 3. Eactive type question	e solved in first 30 ach question carries es on Page No. 3 only /R/S) on Top of Page	-
Duratio	on : 30 Minutes	MCQ/Objective T	ype Questions	Marks	: 20
	oose the correct alto		U. C (.)	(20×1=	:20)
1)	Do's and Don'ts are	e observed careful	lly in safety precaut	lions as per	
	a) IS 5216-1962	b) IS 5216-1964	c) IS 5216-1966	d) IS 5216-1969	
2)	In fire extinguisher a) CO ₂	we use b) SO ₂	c) O ₂	d) H ₂ O	
3)	The torque of inducta) Directly proportc) Inversely propo	ional to V	b) Directly propord) Inversely propor		
4)	Brake test isa) Regenerative		testing machine. c) Indirect	d) All of these	
5)	Swinburne test is a a) Load test	•	c) No load test	,	
6)	Swinburne test is a) Direct test	b) Indirect test	c) Special test	d) All of these	
7)	While conducting no of excess load 50 l	<u>-</u>	ad test on induction	motor, the duration	
	a) 2 sec	b) 5 sec	c) 8 sec	d) 9.5 sec	
8)	While conducting n	nomentary overloa	nd test on induction	motor, the duration	

b) 10 sec c) 15 sec

of excess load above 500 H.P. motor is

a) 5 sec

d) 20 sec



9)	Out of different me test and Hopkinson a) Shunt generator c) Shunt motors	n's test are commo	•		
10)	Swinburne's test ar a) Both are direct r b) Direct method o c) Indirect method d) Both are indirect	nethod of testing f testing, indirect n of testing, direct m	nethod of testing		
11)	The impulse test lever normal operating variables	alue.			
	a) 1 to 2	b) 2 to 2.5	c) 4 to 5	d)	7 to 9
12)	As per I.E.C. for 66 a) 100 kv				nd voltage is 325 kv
13)	In insulation resistaresistance is				
	a) 250 M Ω	b) 500 M Ω	c) /50 MΩ	a)	1000 M Ω
14)	For induced type transystem voltage + 10	000 volt.			_
	a) Twice	b) Thrice	c) Fourtimes	d)	None of these
15)	In moisture proofne a) 70%		s maintained to c) 90%		
16)	In dielectric absorpti at regular interval of	faı	nd recorded.		
	a) 24 hour	b) 12 hour	c) 30 min	d)	5 min
	For class A insulation a) 60°C		num operating temp c) 95°C		
18)	Polarization index is a) 1	s greater than b) 1.5	c) 2		nsulation. 2.5
19)	While installing election is to be carried out	then, we use	-		
	a) Spirit level	b) Dial indicator	c) Bearing puller	d)	Filler gauge
20)	Thermal relays are owing to	used for the prot	ection of motors a	gair	nst over-current
	a) Short circuit	b) Heavy loads	c) Earth fault	d)	All the above



Seat	
No.	

B.E. (Electrical Engg.) (Part – II) Examination, 2017 ELECTRICAL INSTALLATION TESTING AND MAINTENANCE

Day and Date: Wednesday, 22-11-2017 Marks: 80

Time: 3.00 p.m. to 6.00 p.m.

SECTION - I

2. Solve any four:

 $(4 \times 5 = 20)$

- 1) What are the objectives of testing of machine?
- 2) Explain the term:
 - a) Safety
 - b) Accountability
 - c) Authority
 - d) Responsibility.
- 3) Write the factors on which severity of shock is depends.
- 4) What precautions to be taken to avoid the fire due to electric reason.
- 5) Write the procedure for developing preventive maintenance.
- 6) Explain routine and breakdown maintenance of transformer.

3. Solve any two:

 $(2\times10=20)$

- 1) What is indirect testing of machine? Explain the Swinburne test in detail.
- 2) Explain the back to back test for transformer.
- 3) Explain test for determination of magnetizing current and core losses.



SECTION-II

4. Solve any four: (4×5=20)

- 1) State factors on which life of insulation depends.
- 2) List the properties of transformer oil.
- 3) What are the effects of mis-alignment?
- 4) State the various methods of revarnishing.
- 5) How will you interpret about the condition of insulation?
- 6) List the common trouble in electrical installation.

5. Attempt any two:

 $(2 \times 10 = 20)$

- 1) What are the requirements of foundations for installing rotating electrical machines as per IS 900-1992.
- 2) Classify insulating materials in details as per IS.
- 3) Explain with neat sketch the vacuum impregnation method of varnishing the insulation.
