



SLR-TJ – 390

Seat No.	
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Set	Q
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**B.E. (Electrical Engg.) (Part – II) Examination, 2017**  
**ELECTRICAL INSTALLATION TESTING AND MAINTENANCE**

Day and Date : Wednesday, 22-11-2017  
Time : 3.00 p.m. to 6.00 p.m.

Max. Marks : 100

**Instructions :** 1) Q. No. 1 is **compulsory**. It should be solved in **first 30 minutes** in Answer Book Page No. 3. **Each** question carries **one** mark.

2) **Answer MCQ/Objective type questions on Page No. 3 only.**  
**Don't forget to mention, Q.P. Set (P/Q/R/S) on Top of Page.**

**MCQ/Objective Type Questions**

Duration : 30 Minutes

Marks : 20

1. Choose the correct alternatives :

(20×1=20)

- 1) In dielectric absorption test by using megger, insulation resistance is measured at regular interval of \_\_\_\_\_ and recorded.  
a) 24 hour                      b) 12 hour                      c) 30 min                      d) 5 min
- 2) For class A insulating material, maximum operating temperature is  
a) 60°C                      b) 90°C                      c) 95°C                      d) 105°C
- 3) Polarization index is greater than \_\_\_\_\_ for class A insulation.  
a) 1                      b) 1.5                      c) 2                      d) 2.5
- 4) While installing electrical machines, checking of foundation for correct level is to be carried out then, we use  
a) Spirit level                      b) Dial indicator                      c) Bearing puller                      d) Filler gauge
- 5) Thermal relays are used for the protection of motors against over-current owing to  
a) Short circuit                      b) Heavy loads                      c) Earth fault                      d) All the above
- 6) Do's and Don'ts are observed carefully in safety precautions as per \_\_\_\_\_  
a) IS 5216-1962                      b) IS 5216-1964                      c) IS 5216-1966                      d) IS 5216-1969
- 7) In fire extinguisher we use  
a) CO<sub>2</sub>                      b) SO<sub>2</sub>                      c) O<sub>2</sub>                      d) H<sub>2</sub>O
- 8) The torque of induction motor is  
a) Directly proportional to V                      b) Directly proportional to V<sup>2</sup>  
c) Inversely proportional to V                      d) Inversely proportional to V<sup>2</sup>

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- 9) Brake test is \_\_\_\_\_ method of testing machine.  
a) Regenerative    b) Direct    c) Indirect    d) All of these
- 10) Swinburne test is also called as \_\_\_\_\_.  
a) Load test    b) Brake test    c) No load test    d) Full load test
- 11) Swinburne test is  
a) Direct test    b) Indirect test    c) Special test    d) All of these
- 12) While conducting momentary overload test on induction motor, the duration of excess load 50 H.P. motor is ?  
a) 2 sec    b) 5 sec    c) 8 sec    d) 9.5 sec
- 13) While conducting momentary overload test on induction motor, the duration of excess load above 500 H.P. motor is  
a) 5 sec    b) 10 sec    c) 15 sec    d) 20 sec
- 14) Out of different methods available for testing of d.c. motors, Swinburne's test and Hopkinson's test are commonly used in practice on  
a) Shunt generators    b) Series motors  
c) Shunt motors    d) All of these
- 15) Swinburne's test and brake tests  
a) Both are direct method of testing  
b) Direct method of testing, indirect method of testing  
c) Indirect method of testing, direct method of testing  
d) Both are indirect method of testing
- 16) The impulse test level is determined by operating level is \_\_\_\_\_ times normal operating value.  
a) 1 to 2    b) 2 to 2.5    c) 4 to 5    d) 7 to 9
- 17) As per I.E.C. for 66 kv system voltage, the impulse withstand voltage is  
a) 100 kv    b) 150 kv    c) 220 kv    d) 325 kv
- 18) In insulation resistance test of 132 kv transformer, minimum insulation resistance is  
a) 250 M  $\Omega$     b) 500 M  $\Omega$     c) 750 M  $\Omega$     d) 1000 M  $\Omega$
- 19) For induced type transformer test, test voltage is equal to \_\_\_\_\_ highest system voltage + 1000 volt.  
a) Twice    b) Thrice    c) Four times    d) None of these
- 20) In moisture proofness test, humidity is maintained to \_\_\_\_\_.  
a) 70%    b) 80%    c) 90%    d) 110%
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