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Continuing Education Course #637  
NETA Maintenance Testing Specifications  
Part I

1. How often should one expect updates to NETA MTS?
  - a. 1 year
  - b. 2 years
  - c. 3 years
  - d. 4 years
  
2. Where are electrical tests mentioned in paragraph B specifications provided?
  - a. Paragraph A
  - b. Paragraph B
  - c. Paragraph C
  - d. Paragraph D
  
3. Qualified testing technicians should be Level \_\_\_\_\_ or higher.
  - a. 2
  - b. 3
  - c. 4
  - d. 5
  
4. Test equipment should be calibrated within how many months of the testing date?
  - a. 6
  - b. 12
  - c. 24
  - d. Per Manufacturer
  
5. What does a yellow test decal indicate?
  - a. acceptable for use
  - b. use with caution
  - c. minor deficiency
  - d. do not use
  
6. What marking is used to indicate optional tests?
  - a. \*
  - b. \*\*
  - c. !
  - d. opt
  
7. Resistance on similar bolted connection should be investigated if they deviate by more than \_\_\_\_\_ percent from the \_\_\_\_\_ value measured.

- a. 10 / median
- b. 15 / average
- c. 50 / lowest
- d. 50 / highest

8. Insulation resistance checks on switchgear for systems operating at <600 V pass if the resistance is what minimum value?

- a. 1 M $\Omega$
- b. 10 M $\Omega$
- c. 100 M $\Omega$
- d. 1000 M $\Omega$

9. What is the passing criteria for Dielectric Withstand Tests?

- a. <1 mA
- b. >10 mF
- c. not hot to the touch
- d. no evidence of distress

10. What voltage should be used when checking control winding insulation for 600 V cable?

- a. 300 V
- b. 500 V
- c. 600 V
- d. 1000 V

11. What is the specification for a small dry-type low-voltage transformer's turns ratio?

- a. 0.5%
- b. 1.0%
- c. depends on the burden
- d. depends on the accuracy

12. What is the passing insulation resistance value for a large dry-type air-cooled 480 V transformer?

- a. 100 M $\Omega$
- b. 500 M $\Omega$
- c. 1000 M $\Omega$
- d. 5000 M $\Omega$

13. What value of the dielectric absorption ratio (DAR) is acceptable for a large dry type transformer?

- a. 0.5
- b. 0.8
- c. 0.9
- d. 1.0

14. What is another name for the Dissipation Factor test?

- a. polarization test
- b. withstand test
- c. tip-up test
- d. tan delta

15. What value of power factor tip-up testing requires investigation?

- a. >1%
- b. >2%

- c. >5%
  - d. >10%
16. What test passes if two of the current reading are similar and one is low?
- a. insulation withstand
  - b. voltage testing
  - c. polarization
  - d. excitation
17. When parallel conductor low-voltage cables are used, one should investigate if the results show what?
- a. deviations in resistance
  - b. deviations in withstand
  - c. 50% deviations
  - d. 15% deviations
18. What shield continuity is considered satisfactory for 1000 ft run?
- a. 1  $\Omega$
  - b. 10  $\Omega$
  - c. 15  $\Omega$
  - d. 20  $\Omega$
19. What busway connection point contact resistance requires investigation if the lowest value measured is 500 m $\Omega$ ?
- a. 400 m $\Omega$
  - b. 450 m $\Omega$
  - c. 600 m $\Omega$
  - d. 800 m $\Omega$
20. What fuse value deviation requires investigation?
- a. 5%
  - b. 10%
  - c. 15%
  - d. 20%
21. What NETA table should be used for molded-case circuit breakers for the long-time pickup specification?
- a. 100.1
  - b. 100.5
  - c. 100.7
  - d. 100.8
22. What device number represents an AC circuit breaker?
- a. 52
  - b. 59
  - c. 67
  - d. 87
23. What is the turns ratio accuracy for a Class C CT at rated current per IEEE?
- a. 3%
  - b. 10%
  - c. per manufacturer
  - d. per burden rating

24. The knee point voltage should be above the CT \_\_\_\_\_ rating.

- a. primary current
- b. primary voltage
- c. secondary current
- d. secondary voltage

25. What ratio does the  $\tan\delta$  measure?

- a.  $I_C/I_R$
- b.  $I_R/I_C$
- c.  $V_T/V_C$
- d.  $P_t/P_a$

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