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Continuing Education Course #638
NETA Maintenance Testing Specifications
Part II

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 red 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. Short-Circuit studies are governed by what reference?
 - a. ANSI
 - b. IEEE

- c. NECA
- d. NEMA

8. What type of study determines real and reactive power, current and power factor throughout the system?

- a. Harmonic
- b. Incident Energy
- c. Load Flow
- d. Stability

9. When checking step voltage regulators, the polarization index (PI) should be what value?

- a. >1.0
- b. >1.4
- c. >2.0
- d. >5.0

10. What additional test (optional) is listed for a load tap changer that uses a vacuum circuit breaker?

- a. continuity
- b. MAC
- c. contact opening time
- d. resistance

11. What reference guides grounding systems?

- a. ASTM
- b. NECA
- c. NEC
- d. NESC

12. What is the acceptable value for grounding electrode to ground resistance for a large commercial system?

- a. 1 Ω
- b. 5 Ω
- c. 10 Ω
- d. 15 Ω

13. Point to Point resistance in a grounding system should not exceed what value?

- a. 0.5
- b. 1.0 Ω
- c. 10 Ω
- d. 25 Ω

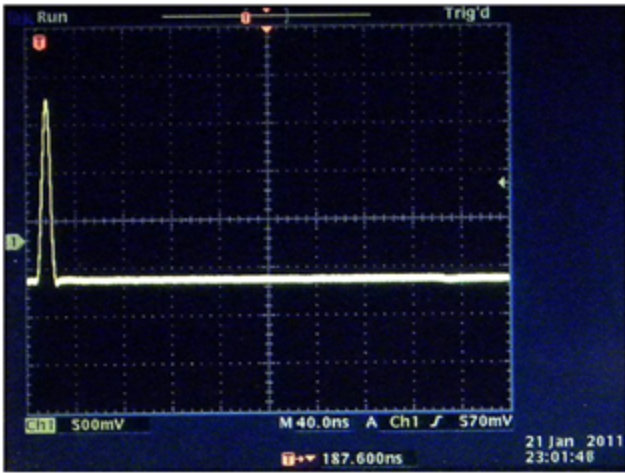
14. Ground Fault Protection Systems use control voltage to actuate using a control voltage as the input. What level of control voltage is required for a nominal AC input of 120V to ensure operation?

- a. 66 V
- b. 75 V
- c. 100 V
- d. 120 V

15. What PI value is acceptable during insulation checks on AC Induction Motors?

- a. 1.0
- b. 1.4
- c. 2.0
- d. 5.0

16. What insulation test is done on a DC Motor that is >200 hp?
- a. DAR
 - b. HIPOT
 - c. PI
 - d. Surge
17. What insulation resistance is considered acceptable for a Low-Voltage Motor Starter's control wiring?
- a. 0.5 Ω
 - b. 0.5 M Ω
 - c. 1.0 M Ω
 - d. 2 M Ω
18. Adjustable Speed Drive Systems have overload relays tested at _____ of rating?
- a. 115%
 - b. 150%
 - c. 250%
 - d. 300%
19. What busway connection point contact resistance requires investigation if the lowest value measured is 500 m Ω ?
- a. 400 m Ω
 - b. 450 m Ω
 - c. 600 m Ω
 - d. 800 m Ω
20. The individual cell voltage on a Flooded Lead-Acid battery should within what value of the neighboring cell?
- a. 0.05 V
 - b. 1 V
 - c. 5 V
 - d. 10 V
21. How fast should a Capacitor discharge to a level of 50 V?
- a. Depends on Initial Voltage
 - b. 0.5 minutes
 - c. 5 minutes
 - d. 1 minute
22. A Resistor should be within _____ % of the factory acceptance test value.
- a. 1
 - b. 2
 - c. 5
 - d. 10
23. An Emergency Engine Generator of 100 hp requires an insulation check. The DAR should be tested over a _____ minute period.
- a. 1
 - b. 5
 - c. 10
 - d. 30
24. A TDR test on a fiber optic cable give the following graph.



What is the issue?

- a. ground
- b. no issue, normal
- c. short
- d. undefined

25. A Thermographic Survey checks similar equipment or between equipment and _____ temperature.

- a. ambient
- b. reference
- c. 20 C
- d. 40 C

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