

Lesson 15

Quiz Key

1. Properly trained technicians using proper materials, techniques and procedures correctly will find all discontinuities that are possible to be detected.
 - a. **True**
 - b. False
2. If manufacturers' instructions for storage are followed, materials should not degrade except by contamination.
 - a. **True**
 - b. False
3. New materials do not have to be checked prior to use.
 - a. True
 - b. **False**
4. The settling test is performed once for new mixtures of solutions and does not need to be performed before each use thereafter.
 - a. True
 - b. **False**
5. Ultraviolet radiation intensity used for testing must be a minimum of $1000 \mu\text{W}/\text{cm}^2$ measured at 15 in.
 - a. **True**
 - b. False
6. The ultraviolet radiation intensity is normally measured with a light meter hourly because the lamps lose intensity as they age.
 - a. True
 - b. **False**
7. Too much current will produce nonrelevant indications or excessive background.
 - a. **True**
 - b. False

8. New test objects usually require half or full wave direct current to detect subsurface discontinuities and may also use alternating for better surface sensitivity.

a. **True**

b. False

9. Companies that perform magnetic particle testing in accordance with ASTM specifications are not required to have written approved procedures that detail the equipment they use and the techniques used to satisfy the national standards.

a. True

b. **False**

10. The residual method should only be used as an aid in evaluating indications detected with the continuous method and for information tests of materials with high retentivity.

a. **True**

b. False