

SP20P Pre-Instructional Survey

Name _____ Date _____

1. What are the three most popular industrial temperature sensors?
 - a.
 - b.
 - c.

2. What is the most popular sensing element for RTDs?
 - a.

3. Is there any difference between response time and time constant?
 - a. Yes
 - b. No

4. Pressure sensors used in industrial processes not only measure pressure. What can they also be used to monitor?
 - a.
 - b.

5. The time constant of a first-order system can be identified directly from the step-response behavior.
 - a. True
 - b. False

6. What is the most common test used for measuring temperature sensor's response time?
 - a.

7. What factors affect the accuracy of RTDs?
 - a.
 - b.
 - c.
 - d.

8. There are two methods that are commonly used for response time testing. What are they?
 - a.
 - b.

9. What is the purpose of the TDR test?
 - a.

10. What is the bath-tub curve?
 - a.

SP20P Pre-Instructional Survey Answer Sheet

1. RTDs, Thermocouples, Thermistors
2. Platinum
3. Yes
4. Level and Flow
5. True
6. The plunge test
7. Calibration Accuracy, Extrapolation Errors, Installation Errors, and Aging Effects
8. Conventional Method, In-Situ Method
9. The TDR test is popular to determine where a problem is located along a cable.
10. A diagram that illustrates the effect that aging has on an instrument's probability of failure