

Assessment

Circle the letter that corresponds to the correct answer.

1. Which process does not use capillary action and does not melt the base metal?
 - a. Braze welding
 - b. Brazing
 - c. Fusion welding
 - d. Soldering
2. A correct statement about both brazing and soldering is that they:
 - a. use capillary action and melt the base metal.
 - b. use capillary action and do not melt the base metal.
 - c. do not use capillary action and melt the base metal.
 - d. do not use capillary action and do not melt the base metal.
3. Which statement is correct about brazing?
 - a. Brazing cannot be used to join nonmetal materials.
 - b. Distortion is decreased because a lower temperature is used.
 - c. Brazing creates more stresses in the metal than fusion welding.
 - d. Filler metals used for brazing are stronger than the base metals.
4. One function of flux used in brazing is to:
 - a. help the filler and base metal to melt.
 - b. keep the filler and base metals from melting.
 - c. add oxides to the filler and base metal.
 - d. remove oxides from the filler and base metal.
5. Brazing rods called "bronze" are actually made mostly of:
 - a. brass.
 - b. iron.
 - c. tin.
 - d. zinc.

6. One step that is essential in both brazing and braze welding is:
- a. directing the heat to only the area of the weld.
 - b. using a flux to provide wetting and capillary action.
 - c. cleaning the base metal before beginning the process.
 - d. ensuring the pieces have a clearance of .001 to .010 in.

Complete the following short-answer questions.

7. List four potential hazards of the brazing or braze welding process.
- a.
 - b.
 - c.
 - d.
8. Name two advantages of brazing over fusion welding.
- a.
 - b.
9. Name two disadvantages of brazing over fusion welding.
- a.
 - b.
10. What can happen to weld quality if the if the flux and filler metal are incompatible with the base metal?