

## Pre-Test Protective Systems

1. Benching can be used in type c soils.
  - a. True
  - b. False**
2. One type of acceptable shoring is hydraulic.
  - a. True**
  - b. False
3. The deepest Excavation you can use benching or sloping is:
  - a. 12 feet
  - b. 15 feet
  - c. 20 feet**
  - d. There is no limit on depth of excavation
4. Sloping can be used on:
  - a. A soils only
  - b. A, and B soils only
  - c. A, B, and C soils**
  - d. None of the above
5. The sloping angle on a stable rock excavation:
  - a. 90°**
  - b. 45°
  - c. 53°
  - d. 34°
6. Shoring should be installed:
  - a. From the top down**
  - b. From the bottom up
  - c. Around only loose material
  - d. None of the above
7. Shoring:
  - a. Can only be timber
  - b. Does not support the face of the excavation
  - c. Is only used with sloping
  - d. Adjustable to various depths and widths of the excavation**

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8. Shielding:
  - a. Is designed to take lateral movement
  - b. Designed to protect from cave-ins
  - c. Can be subjected to loads greater than what it was designed to withstand
  - d. None of the above
  
9. Trench boxes:
  - a. Can be stacked
  - b. Highly adjustable to meet various depths and widths of the excavation
  - c. Have to have the soil level even with the top of the box
  - d. None of the above
  
10. Spoil piles need to be:
  - a. No closer than 1 foot away from excavation edge
  - b. No closer than 18 inches away from excavation edge
  - c. placed so that it cannot accidentally run, slide, or fall back into the excavation
  - d. Taken off site

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