

Post-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. Excavations greater than 20' need an engineer to design a protective system.
 - a. True
 - b. False
4. Hydraulic shoring can be pre-loaded.
 - a. True
 - b. False
5. Timber is no longer an acceptable means of shoring.
 - a. True
 - b. false
6. 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
7. 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
8. The sloping angle on a stable rock excavation:
 - a. 90°
 - b. 45°
 - c. 53°
 - d. 34°

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9. Shoring should be installed:
 - a. From the top down
 - b. From the bottom up
 - c. Around only loose material
 - d. None of the above

10. 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

11. 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

12. 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

13. 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

14. When using trench boxes:
 - a. Backfill may be needed to prevent lateral movement
 - b. You can only use one box the exact height of the excavation
 - c. Egress is not required
 - d. Can withstand twice the rated load

15. The main types of shoring are:
 - a. Timber
 - b. Hydraulic
 - c. Both A & B
 - d. None of the above

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