

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:
- From the top down
 - From the bottom up
 - Around only loose material
 - None of the above
10. Shoring:
- Can only be timber
 - Does not support the face of the excavation
 - Is only used with sloping
 - Adjustable to various depths and widths of the excavation
11. Shielding:
- Is designed to take lateral movement
 - Designed to protect from cave-ins
 - Can be subjected to loads greater than what it was designed to withstand
 - None of the above
12. Trench boxes:
- Can be stacked
 - Highly adjustable to meet various depths and widths of the excavation
 - Have to have the soil level even with the top of the box
 - None of the above
13. Spoil piles need to be:
- No closer than 1 foot away from excavation edge
 - No closer than 18 inches away from excavation edge
 - placed so that it cannot accidentally run, slide, or fall back into the excavation
 - Taken off site
14. When using trench boxes:
- Backfill may be needed to prevent lateral movement
 - You can only use one box the exact height of the excavation
 - Egress is not required
 - Can withstand twice the rated load
15. The main types of shoring are:
- Timber
 - Hydraulic
 - Both A & B
 - None of the above

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