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Examination for Earth and Rockfill Dams Part 2

CHAPTER 7 – EMBANKMENT DESIGN

1. Rocks that break down to fine sizes during excavation should be treated as what?
 - a) Backfill
 - b) Soils
 - c) Weathered rocks
 - d) Aggregates

2. A core top width of what distance is considered the minimum for construction equipment?
 - a) 15 ft
 - b) 25 ft.
 - c) 10 ft.
 - d) 12 ft.

3. Which of the following examples has the highest pool or flood elevation?
 - a) 7-1a
 - b) 7-1b
 - c) 7-2a
 - d) 7-2b

4. Which of the four types of cracks listed can be treated from the surface?
 - a) Transverse
 - b) Horizontal
 - c) Longitudinal
 - d) Shrinkage

5. Excess pore water pressures dissipate less rapidly in pervious materials?
 - a) True
 - b) False
 - c) Not enough information for a specific answer
 - d) Too many variables for a specific answer

6. Where mowing is required on an embankment slope, the steepest slope should be what?
- a) 1 vertical on 3 horizontal
 - b) 2 vertical on 3 horizontal
 - c) 1 vertical on 4 horizontal
 - d) 1 vertical on 2 horizontal
7. Placement water contents for most projects will fall within what range of optimum?
- a) 1 percent dry to 2 percent wet
 - b) 1 percent dry to 3 percent wet
 - c) 2 percent dry to 3 percent wet
 - d) 3 percent dry to 3 percent wet
8. Field densities will exceed maximum densities from the standard compaction test?
- a) True
 - b) False
 - c) Not enough information for a specific answer
 - d) Too many variables for a specific answer
9. What is the minimum in-place relative density of zones containing cohesionless soils?
- a) 90 percent
 - b) 75 percent
 - c) 85 percent
 - d) 80 percent
10. Fine rock zones should be placed in lift thicknesses of what?
- a) 10 to 15 inches
 - b) 24 inches maximum
 - c) 12 to 18 inches
 - d) 18 inches minimum

CHAPTER 8 – APPURTENANT STRUCTURES

11. The substitution of hand-tamped earth fill is not considered an acceptable substitution for a lean concrete plug?
- a) True
 - b) False
 - c) Not enough information for a specific answer
 - d) Too many variables for a specific answer
12. Horizontal joints should be chamfered in the contact areas between embankment and concrete?
- a) True
 - b) False
 - c) Not enough information for a specific answer
 - d) Too many variables for a specific answer

CHAPTER 9 – GENERAL CONSTRUCTION CONSIDERATIONS

13. Who has the responsibility of quality assurance?
- a) The contractor
 - b) The supplier
 - c) The government
 - d) The project sponsor
14. Which of the following is not listed as a factor in determining the method of stream control?
- a) Construction schedule
 - b) Weather conditions
 - c) Geology of the site
 - d) Hydrology of the stream
15. Which of the following is a problem inherent with the construction of closure sections?
- a) Initial reservoir filling
 - b) Embankment erosion protection
 - c) Overtopping protection
 - d) High excess pore water pressures
16. Which of the following materials should not be analyzed by the microwave oven system?
- a) Gravel particles
 - b) Highly organic materials
 - c) Gypsum-rich soils
 - d) Shales
17. When is a construction foundation report to be written?
- a) Within six months after project completion
 - b) Within four months after project completion
 - c) Within three months after project completion
 - d) Within two months after project completion

CHAPTER 10 - INSTRUMENTATION

18. Each piezometer should be placed with its tip in what?
- a) Fine aggregate
 - b) Pervious material
 - c) Foundation material
 - d) Impervious material

19. At what interval should monuments be placed on a dam crest that is 900 feet long?
- a) 200 ft.
 - b) 400 ft.
 - c) 50 ft.
 - d) 100 ft.

APPENDIX B – FILTER DESIGN

20. In what way is a drain different than a filter?
- a) A drain must retain the protected soil
 - b) A drain must have an adequate discharge capacity
 - c) A drain must efficiently control the movement of water
 - d) A drain must have a permeability greater than the protected soil
21. Granular materials containing little or no fines should be what during compaction?
- a) Dewatered
 - b) Mixed
 - c) Saturated
 - d) Filtered

APPENDIX C – SLOPE PROTECTION

22. What is the minimum thickness of bedding layers beneath riprap?
- a) 6 inches
 - b) 9 inches
 - c) 12 inches
 - d) 15 inches
23. What is the minimum thickness of riprap in the upstream slope?
- a) 18 inches
 - b) 24 inches
 - c) 10 inches
 - d) 12 inches

APPENDIX D - AUTOMATIC DATA ACQUISITION SYSTEMS

24. The use of automatic data acquisition systems can replace the normal visual inspection schedule of project features?
- a) True
 - b) False
 - c) Not enough information for a specific answer
 - d) Too many variables for a specific answer
25. Which of the following instruments or measurement devices is not easily automated?
- a) Electrical piezometers
 - b) Borehole extensometers
 - c) Channel scour survey data
 - d) Soil pressure meter



Answer Sheet for Earth and Rockfill Dams Part 2
 TPDH-00026

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