



TRITON-PDH.COM
6757 W. Charleston Boulevard, Suite B
Las Vegas, NV 89146
Admin@triton-pdh.com

Examination for Construction with Large Stone

CHAPTER 1 - INTRODUCTION

1. Which of the following is considered to be a granular or particulate material?
 - a) Armor stone
 - b) Field stone
 - c) Jetty stone
 - d) Riprap

CHAPTER 2 – ENGINEERED FEATURES AND STRUCTURES

2. At the heart of some slope protection designs using riprap is what characteristic?
 - a) Well defined specifications
 - b) Ease of placement
 - c) Physical flexibility
 - d) Maintenance
3. Which of the engineered structures listed constitutes the largest use of large stone?
 - a) Zoned rockfill dams
 - b) Breakwaters
 - c) Slope protection
 - d) Retention dikes

CHAPTER 3 – MATERIALS PROBLEMS AND CONSTRUCTION PROBLEMS

4. What is the primary desired attribute of any large-stone material structure?
 - a) Economy
 - b) Quality
 - c) Durability
 - d) Constructability
5. Which of the following is considered a material-related factor affecting large-stone performance?
 - a) Undercutting
 - b) Sedimentation
 - c) Drainage reduction
 - d) Freezing

6. What is the cause of damage to large stone that comes from small-stone operations?
 - a) Small aggregate production
 - b) Heavy blasting
 - c) Material handling
 - d) Aggregate demand

7. Which production constraint is most affected by geology?
 - a) Product mix
 - b) Quarrying method
 - c) Reserves
 - d) Operational status

8. Which mode of transportation is usually the most costly?
 - a) Barge
 - b) Rail
 - c) Truck
 - d) Airplane

9. Which is among the most common forms of breakdown following project completion?
 - a) Delaminating
 - b) Disaggregating
 - c) Disintegrating
 - d) Dissolving

10. Specified dimensional ratios, length to thickness, are usually limited to what?
 - a) 1:1
 - b) 2:1
 - c) 3:1
 - d) 4:1

CHAPTER 4 – INVESTIGATION OF SOURCES

11. Where does sandstone rank as a preliminary approximation of quality (durability)?
 - a) Third
 - b) Seventh
 - c) First
 - d) Fifth

12. Project design should never be varied simply according to available stone type?
 - a) True
 - b) False
 - c) Not enough information for a specific answer
 - d) Too many variables for a specific answer

13. Typically, a current source is one that has supplied satisfactory stone within how many years?

- a) 20 years
- b) 15 years
- c) 10 years
- d) 5 years

14. The quarry's willingness to participate should be included in a new-source evaluation?

- a) True
- b) False
- c) Not enough information for a specific answer
- d) Too many variables for a specific answer

15. Bulk samples may not exceed 10 tons?

- a) True
- b) False
- c) Not enough information for a specific answer
- d) Too many variables for a specific answer

CHAPTER 5 – EVALUATING SOURCES AT PROJECT SITE

16. What is usually a necessary supplement to surface mapping?

- a) Subsurface projections
- b) Detailed excavations
- c) Core drilling
- d) Volume calculations

17. What core diameter is ideal for evaluating stone sources?

- a) 1.25 inches
- b) 1.15 inches
- c) 2.50 inches
- d) 2.15 inches

18. What should be excluded from rock volume calculations?

- a) Small aggregate
- b) Overburden
- c) Saturated water
- d) Test cores

CHAPTER 6 – STONE TESTING

19. For an abrasion test, what is the acceptable percent loss for 500 revolutions?

- a) Less than 1 percent
- b) Less than 5 percent
- c) Less than 10 percent
- d) Less than 20 percent

20. Stone density tests are usually conducted on scraps remaining after other tests?
- a) True
 - b) False
 - c) Not enough information for a specific answer
 - d) Too many variables for a specific answer
21. Which test is useful in distinguishing questionable varieties among altered basaltic rock?
- a) Petrography
 - b) Magnesium sulfate
 - c) Ethylene glycol
 - d) Freezing-thawing
22. Which test has no nationally recognized standard method?
- a) Freezing-thawing
 - b) Wetting-drying
 - c) Abrasion
 - d) Petrography
23. How long of an exposure period is preferred for the set-aside test?
- a) Six months or more
 - b) A year or more
 - c) Two years or more
 - d) One month or more

CHAPTER 7 – CONTRACT DESIGNATION

24. A satisfactory embankment of rockfill often depends heavily on what?
- a) Quarry selection
 - b) Design specifications
 - c) Material quality
 - d) Construction practice
25. How much lead time is suggested for testing riprap in a commercially available laboratory?
- a) 20 days
 - b) 30 days
 - c) 60 days
 - d) 90 days

CHAPTER 8 – QUALITY CONTROL AND QUALITY ASSURANCE

26. Application of detailed CQC to construction contracts under \$1,000,000 is what?
- a) Mandatory
 - b) Not required
 - c) Discretionary
 - d) Not applicable

27. All stone types should be selected for set-aside tests at the quarry?
- a) True
 - b) False
 - c) Not enough information for a specific answer
 - d) Too many variables for a specific answer
28. Retention dike test areas for stones less than 500 lbs. should be what size?
- a) 5 by 10 feet
 - b) 5 by 5 feet
 - c) 10 by 10 feet
 - d) 10 by 15 feet
29. An electronic sounding method for check surveys should not be used on riprap or larger stone material?
- a) True
 - b) False
 - c) Not enough information for a specific answer
 - d) Too many variables for a specific answer
30. Stone delivered to the project and then rejected should not be removed from the site?
- a) True
 - b) False
 - c) Not enough information for a specific answer
 - d) Too many variables for a specific answer



Answer Sheet for Construction with Large Stone
 TPDH-00019

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