

***** EXAMINATION *****

CONSTRUCTION WITH LARGE STONE

1. **Uses of large stone includes:**
 - a) embankments
 - b) levees
 - c) river banks
 - d) All of the above.

2. **The advantage of rip-rap is:**
 - a) stone size
 - b) ease of construction
 - c) adjustment to undercutting
 - d) None of the above.

3. **The primary desired attribute of large-stone materials is:**
 - a) durability against weathering
 - b) chemical resistant
 - c) weight
 - d) None of the above.

4. **Design-related factors for the large-stone material performance**
 - a) are wave dislodgment, rocking abrasion, and ice-block thrust
 - b) are flood crest, storm surge, and current dislodgment
 - c) are rapid filling, sediment abrasion, and snow cover
 - d) are storm surge, water corrosivity, and ice-block rocking

5. **Material-related factors for large-stone material performance**
 - a) are flood crest, rocking abrasion, and snow cover
 - b) are valid plugging, freezing, and floating debris
 - c) are sediment abrasion, rocking abrasion, and freezing
 - d) are storm surge, voiding plugging, and ice cementation

6. **External factors for large-stone materials performance are:**
 - a) snow cover, ice-block rocking, and ice cementation
 - b) storm surge, flood crest, and freezing
 - c) air corrosivity, freezing, and snow cover
 - d) sediment abrasion, snow cover, and floating debris

7. **The three factors influencing production restraints are:**
- a) product mix, quarrying method, and reserves
 - b) product mix, quarrying method, and transportation
 - c) product mix, reserves, and transportation
 - d) None of the above
8. **The three factors affecting transportation are:**
- a) mode, distance, and product mix
 - b) mode, distance, and handling
 - c) distance, product mix, and handling
 - d) None of the above.
9. **Spalling is a deterioration process where:**
- a) the sediment of the rock is eroded.
 - b) thin shells break away
 - c) the stone cracks
 - d) None of the above.
10. **Delaminating is also known as:**
- a) erosion
 - b) weathering
 - c) splitting
 - d) None of the above.
11. **Rock containing anhydrite will be susceptible to:**
- a) spalling
 - b) disintegrating
 - c) dissolving
 - d) None of the above.
12. **Design problems associated with the stone include:**
- a) size and shape
 - b) shape and erosion
 - c) bedding and erosion
 - d) size and erosion
13. **Construction problems associated with stone include:**
- a) material acceptance
 - b) construction quality control
 - c) construction quality assurance
 - d) All of the above.
14. **The rock type ranked best to worst for durability are:**
- a) granite, andesite, and quartzite
 - b) granite, limestone, sandstone
 - c) limestone, sandstone, and granite
 - d) rhyolite, quartzite, and granite

15. **The source status report should include:**
- a) current usage
 - b) past usage
 - c) undesignated usage
 - d) All of the above.
16. **The feasibility study should determine:**
- a) environmental, economic, and engineering factors.
 - b) the bidder's list.
 - c) contractor capability
 - d) None of the above.
17. **The criteria for testing petrography are:**
- a) no clay materials
 - b) no crystalline
 - c) no soluble minerals
 - d) All of the above.
18. **The criteria for absorption is:**
- a) Less than 1 per cent
 - b) Less than 3 per cent
 - c) Less than 5 per cent
 - d) Less than 8 per cent
19. **Ethylene glycol is used to test the presence of:**
- a) limestone
 - b) sandstone
 - c) swelling clay minerals
 - d) None of the above
20. **The plans and specifications should show:**
- a) source and specific stratum
 - b) shape limit
 - c) stone quality characteristics
 - d) All of the above.

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