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## Examination for Evaluation and Repair of Concrete Structures Part 5

### 8-4 Concrete Cutoff Walls

1. Concrete cutoff walls are typically reinforced?
  - a) True
  - b) False
  - c) Not enough information for a specific answer
  - d) Too many variables for a specific answer

### 8-5 Precast Concrete Applications

2. With heavy construction equipment, how much larger could the precast panels have been at the Barker Dam repair project?
  - a) Up to 2 times the area
  - b) Up to 3 times the area
  - c) Up to 4 times the area
  - d) Up to 5 times the area
3. What were the panel thickness and unit width tolerances for the C-1 Dam repairs?
  - a) 3 mm (1/8 in)
  - b) 6 mm (1/4 in)
  - c) 9 mm (3/8 in)
  - d) 13 mm (1/2 in)
4. The use of precast panels at Placer Creek Channel resulted in a savings of how much?
  - a) Approximately \$185,000
  - b) Approximately \$160,000
  - c) Approximately \$250,000
  - d) Approximately \$90,000

5. For the Blue River Channel Project, how much less than the Governments estimate for water control was the low bid estimate?

- a) Approximately \$900,000 less
- b) Approximately \$400,000 less
- c) Approximately \$600,000 less
- d) Approximately \$1,000,000 less

6. How thick was the extruded insulation placed in the Joliet Channel wall repair?

- a) 4 inches
- b) 3 inches
- c) 5 inches
- d) 2 inches

### **8-6 Underwater Repairs**

7. What excavation method must be used when the type of seabed material is cobbles?

- a) Dredge
- b) Air lift
- c) Jet

8. What cleaning tool is recommended for use on heavily fouled massive concrete structures?

- a) Hand-held power tools
- b) High-pressure waterjet
- c) Self-propelled vehicle
- d) Hand tools

9. When tested, what type of grouted anchor exhibited the highest amount of slippage?

- a) Anchors embedded in cementitious materials under submerged conditions
- b) Anchors embedded in polyester resin under dry conditions
- c) Anchors embedded in vinylester under dry conditions
- d) Anchors embedded in polyester resin under submerged conditions

10. A nonshrink cementitious anchor cartridge has been introduced on the market?

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

11. The addition of silica-fume will decrease the cohesiveness of fresh concrete?

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

12. What were the estimated costs to dewater the Red Rock Dam for conventional repairs?
- a) Less than \$100,000
  - b) Approximately \$128,000
  - c) More than \$500,000
  - d) Approximately \$250,000
13. Which method is not recommended for cast-in-place concrete underwater?
- a) The hydrovalve method
  - b) The tremie method
  - c) The freefall method
  - d) The kajima method
14. For panels of a given area, the weight of concrete panels in air will differ from that of steel panels by how much?
- a) About 4 times more
  - b) About 3 times less
  - c) About 2 times more
  - d) About 4 times less
15. Which method is ideal for underwater inspection of repairs?
- a) Echo sounders
  - b) Remotely operated vehicle
  - c) Side-scan sonar
  - d) High-resolution acoustic mapping

### **8-7 Geomembrane Applications**

16. Geocomposite is manufactured in rolls with a minimum width of what?
- a) 6.70 meters
  - b) 2.05 feet
  - c) 6.70 feet
  - d) 2.50 meters
17. In what year was the first Italian application of a geomembrane for rehabilitation purposes?
- a) 1929
  - b) 1970
  - c) 1930
  - d) 1980
18. How long did it take to install the Lake Nero Dam geocomposite?
- a) 30 days
  - b) 50 day
  - c) 70 days
  - d) 90 days

19. All geomembrane installations to date have taken place only after dewatering?
- a) True
  - b) False
  - c) Not enough information for a specific answer
  - d) Too many variables for a specific answer

### **8-8 RCC Applications**

20. Of the first four case histories listed, which had the highest volume of RCC placed?
- a) Chena Project
  - b) Ocoee No. 2 Dam
  - c) Kerville Ponding Dam
  - d) New Cumberland Lock
21. What was the total cost of the RCC placed at the New Cumberland Lock?
- a) About \$157,000
  - b) About \$204,000
  - c) About \$120,000
  - d) About \$350,000
22. By how much was the Kerville Ponding Dam overtopped during the 100-year flood?
- a) By 4.9 feet
  - b) By 16.2 feet
  - c) By 4.4 meters
  - d) By 14.4 meters
23. What is the elevation at the top of the RCC portion of the Boney Falls Dam?
- a) El. 906.90
  - b) El. 906.50
  - c) El. 909.60
  - d) El. 905.60
24. What is the new crest elevation of the Camp Dyer Diversion Dam?
- a) El. 1450.00
  - b) El. 1441.10
  - c) El. 1445.00
  - d) El. 1406.10
25. In what year did a safety evaluation indicate that the Gibraltar Dam did not meet seismic safety standards?
- a) 1983
  - b) 1922
  - c) 1948
  - d) 1993

26. Approximately how many cubic meters of RCC were placed per month for the Littlerock Dam rehabilitation program?

- a) 3,500
- b) 35,000
- c) 7,500
- d) 70,500



Answer Sheet for Evaluation and Repair of Concrete Structures Part 5  
 TPDH-00024

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Please return this answer sheet and your check or money order for \$80.00 to Triton-PDH.com

Please completely fill in one box for each answer

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I hereby certify that I have studied the course materials, and the above answers are my own.  
 No other person has helped me complete this examination.

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