Unit 10 - Week 7: Riverbank Stabilization

Assignment 7

Due on 2020-11-04, 23:59 IST

As per recent data you have not submitted this assignment.

1. Which of the following conditions should be met while selecting grout for laterite soil?
   - $\frac{\text{Drainage Area}}{\text{River Width}} > 40$
   - $\frac{\text{Drainage Area}}{\text{River Width}} < 40$
   - $\frac{\text{Drainage Area}}{\text{River Width}} = 3$
   - All of the above

   No. the answer is incorrect.
   Score: 0
   Accepted Answers:
   - A. Drainage Area
   - B. River Width
   - C. River Width
   - D. All of the above

2. Downward movement of earth and organic materials due to removal of material from the toe of the slope is known as
   - a. Mass wasting
   - b. Landslides
   - c. Sealing
   - d. Erosion

   No. the answer is incorrect.
   Score: 0
   Accepted Answers:
   - A. Mass wasting
   - B. Landslides
   - C. Sealing
   - D. Erosion

3. Which of the following is not an active force for streambank failure?
   - a. Applied shear stress magnitude
   - b. Ditch bank magnitude
   - c. Ditch bank size
   - d. Bank material size

   No. the answer is incorrect.
   Score: 0
   Accepted Answers:
   - A. Applied shear stress magnitude
   - B. Ditch bank magnitude
   - C. Ditch bank size
   - D. Bank material size

4. The passive walls that rely on their mass to resist the movement of soil is known as
   - a. Walls
   - b. Gravity walls
   - c. Drop structures
   - d. Sabkha

   No. the answer is incorrect.
   Score: 0
   Accepted Answers:
   - A. Walls
   - B. Gravity walls
   - C. Drop structures
   - D. Sabkha

5. A structure or embankment projected a safe distance from the bank into a stream to deflect flooding water away from the bank is known as
   - a. Retaining wall
   - b. Spillway
   - c. Protecting structure
   - d. All of the above

   No. the answer is incorrect.
   Score: 0
   Accepted Answers:
   - A. Retaining wall
   - B. Spillway
   - C. Protecting structure
   - D. All of the above

6. Which is a type of drop structure?
   - a. Log and timber
   - b. Walls
   - c. Sabkha
   - d. All of the above

   No. the answer is incorrect.
   Score: 0
   Accepted Answers:
   - A. Log and timber
   - B. Walls
   - C. Sabkha
   - D. All of the above

7. Which of the following does NOT occur under a significant secondary flow?
   - a. Throwing moves toward the valve bank
   - b. Current gages are found near the river bank
   - c. Pour gages are found near the river bank
   - d. Cross sectional geometry becomes asymmetric

   No. the answer is incorrect.
   Score: 0
   Accepted Answers:
   - A. Throwing moves toward the valve bank
   - B. Current gages are found near the river bank
   - C. Pour gages are found near the river bank
   - D. Cross sectional geometry becomes asymmetric

8. Understanding can be prevented by using
   - a. Launching spans
   - b. Steep bank into slopes
   - c. Sufficient low support
   - d. None of the above

   No. the answer is incorrect.
   Score: 0
   Accepted Answers:
   - A. Launching spans
   - B. Steep bank into slopes
   - C. Sufficient low support
   - D. None of the above

   - a. A, B, C
   - b. D, E
   - c. A, E
   - d. B, D

   No. the answer is incorrect.
   Score: 0
   Accepted Answers:
   - A. A, B, C
   - B. D, E
   - C. A, E
   - D. B, D

10. Which of the following materials contributes to least erosive bank?
    - a. Sand
    - b. Silt
    - c. Clay
    - d. All of these

    No. the answer is incorrect.
    Score: 0
    Accepted Answers:
    - A. Sand
    - B. Silt
    - C. Clay
    - D. All of these

11. A straight run channel with water depth of 30 cm has a channel slope of 1 in 3000. Determine the size of rock riprap if bank slope is 30° and angle of friction is \( \phi = 45° \). Assume \( c_r = 0.5 \) and \( c_s = 0.35 \).
    - a. 0.37 ft
    - b. 0.51 ft
    - c. 0.60 ft
    - d. 0.45 ft

    No. the answer is incorrect.
    Score: 0
    Accepted Answers:
    - A. 0.37 ft
    - B. 0.51 ft
    - C. 0.60 ft
    - D. 0.45 ft