Assignment 7

The due date for submitting this assignment has passed. **Due on 2018-09-19, 23:59 IST.**
As per our records you have not submitted this assignment.

1) Which one is not a component of the drop spillway?
   
   A) Head wall  
   B) Wing wall  
   C) Cutoff wall  
   D) End wall

1 point

No, the answer is incorrect.
Score: 0

Accepted Answers:
D)

2) Select the right equation to estimate the Q with freeboard from the following options.

   A) \[ Q = \frac{CLH^2}{(1.1+0.03F)} \]
   B) \[ Q = \frac{3CLH^2}{(1.1+0.03F)} \]
   C) \[ Q = \frac{2CLH^2}{3(1.1+0.03F)} \]
   D) \[ Q = \frac{CLH^2}{0.03F} \]

1 point

No, the answer is incorrect.
Score: 0

Accepted Answers:
A)
3) Which option is not the possible case of hydraulic design?

A) Free flow condition  
B) Submerged flow condition  
C) Free flow condition and submerged flow condition  
D) Partially Submerged flow condition

No, the answer is incorrect. 
Score: 0

Accepted Answers:
D)

4) The discharge capacity of an aerated, rectangular weir without submergence is given by:

A) \( Q = CL \left( H + \frac{V^2}{2g} \right)^{1.5} \)  
B) \( Q = CL \left( H + \frac{V^2}{2g} \right)^2 \)  
C) \( Q = CL \left( H + \frac{V^2}{g} \right)^{1.5} \)  
D) None of the above

No, the answer is incorrect. 
Score: 0

Accepted Answers:
A)

5) What is meant by \( a_n \) in the equation for the determination of velocity of approach \( V_a = \frac{Q}{a_n} \)?

A) Base area of the chosen gully section  
B) Top area of the chosen weir section  
C) Cross-sectional area of the chosen gully section  
D) Side area of the chosen gully section


6) Which type of drainage is recommended to ensure stability against sliding and piping?
A) Type a
B) Type b
C) Type c
D) Type d

No, the answer is incorrect.
Score: 0
Accepted Answers: C)

7) What is the economical combination of L and h in hydraulic design of drop spillway?
A) h/L < 0.5
B) h/F < 0.5
C) None of (A) and (B)
D) Both (A) and (B)

No, the answer is incorrect.
Score: 0
Accepted Answers: D)

8) What are the criteria of safe design of drop spillway?
A) F ≤ 4.57 m
B) F + h ≤ 6 m
C) None of (A) and (B)
D) Both (A) and (B)

No, the answer is incorrect.
Score: 0
Accepted Answers: B)
9) What is the angle of internal friction for pit run, sand and gravel?

A) 25°
B) 35°
C) 45°
D) 90°

No, the answer is incorrect.
Score: 0
Accepted Answers:
D)

10) Which is the expression of the ratio of lateral earth pressure to vertical pressure?

A) \( \frac{1 - \sin \theta}{1 + \sin \theta} \)
B) \( \frac{1 - \sinh \theta}{1 + \sin \theta} \)
C) \( \frac{1 - \sin \theta}{1 + \sin^{-1} \theta} \)
D) \( \frac{1 + \sin \theta}{1 - \sin \theta} \)

No, the answer is incorrect.
Score: 0
Accepted Answers:
A)