Assignment 9

The due date for submitting this assignment has passed. As per our records you have not submitted this assignment.

Due on 2018-10-03, 23:59 IST.

1) What of the following is not an alternate term used for the drop inlet spillway?  
   
   1 point
   
   A) Shaft spillway
   B) Morning glory spillway
   C) Glory hole spillway
   D) Moonlight spillway

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

2) Which one is not a component of the drop inlet spillway?

   1 point
   
   A) Inlet
   B) Valve
   C) Conduit
   D) Outlet

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

3) 

   1 point
Calculate the velocity of water in a pipe where total head = 4 m, Length of pipe = 10 m, entrance loss coefficient, \( K_e = 0.6 \) and friction loss coefficient \( K_f = 0.02 \). 

A) 2.21  
B) 5.43  
C) 6.61  
D) None of the above 

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

4) Total length of the seepage collars should be nearly _________ of the total length of seepage  
A) 30%  
B) 40%  
C) 50%  
D) 60%  

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

5) Anti-seep collars should be placed within _______________  
A) Saturation zone  
B) Unsaturated zone  
C) Half-saturated zone  
D) Quarter-saturated zone  

No, the answer is incorrect.  
Score: 0  
Accepted Answers:  
A)
Sand and gravel filters are provided to help drainage and prevent ______________
A) Jumping
B) Piping
C) Lighting
D) Sounding

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

7)
The upstream and downstream side slopes commonly used in an earthen dam are ______ respectively
A) 3:1 and 2:1
B) 4:1 and 2.5:1
C) 1.5:1 and 1.25:1
D) None of these

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

8)
For safety against overtopping, 5% height or more is added as a settling allowance and ____ as freeboard
A) 30 cm
B) 37 cm
C) 60 cm
D) 65 cm

No, the answer is incorrect.
Score: 0
Accepted Answers: C)
9) Which one is the correct expression of Darcy equation for round pipe?

A) \( h_f = \frac{4fLv^2}{2gd} \)

B) \( h_f = \frac{fLv^2}{2gd} \)

C) \( h_f = \frac{4fLv^2}{gd} \)

D) \( h_f = \frac{fLv^2}{gd} \)

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

10) The equation for determining approximate shaft radius, \( R \), for a given discharge \( Q_a \) and head \( H_a \) is

A) \( R = 0.204 \sqrt[0.25]{\frac{Q_a}{H_a}} \)

B) \( R = \frac{\sqrt[0.25]{Q_a}}{H_a} \)

C) \( R = 0.3 \sqrt[0.25]{\frac{Q_a}{H_a}} \)

D) None of the above

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