Civil Engineering Quiz 003 (Mixed)

Quiz Instructions
- Before attempting, carefully read the question text.
- Then choose the correct answer.
- Click on **"Submit"** to confirm your answer.
- Use the **Question List** in the upper left corner to jump to a certain question.

1. Calculate the permanent wetting point of the depth of water in the root zone at the permanent wetting point per metre depth of soil is 0.4 m. The dry density of soil is 16 kN/m^3.

   A) 0.025

   B) 0.245

   C) 0.4

   D) 0.64

2. Which of the following is correct statement for the cross slope of the shoulder?

   A) It is 1% flatter than the cross slope of pavement

   B) It's minimum value is 2%

   C) It is 0.5% steeper than the cross slope of the pavement

   D) Its value is equal to the cross slope of pavement

3. What is the theoretical oxygen demand (mg/(a) of a glucose?

   A) 250.33

   B) 380.65

   C) 533.33

   D) 650.21

4. According to the Unwin's formula, if t is the thickness of the plate in mm, the nominal diameter of the rivet is

   A) $d = 1.9\sqrt{t}$

   B) $d = 1.91\sqrt{2}$

   C) $d = 1.91\sqrt{t}$

   D) None of these

5. A column splice is used to increase

   A) length of the column

   B) strength of the column

   C) cross-sectional area of the column

   D) None of these

6. Calculate the safe stopping sight distance for a design speed of 60 km/h for two way traffic on a single lane road. The reaction time of driver is 2.5 sec.

A) 82.21

B) 136.23

C) 164.42

D) 674.24

7. Effective length of a column effectively held in position at both ends and restrained in direction at one end is

A) L

B) 0.67 L

C) 0.85 L

D) 1.5 L

8. If the unsupported length of a stanchion is 4 meters and least radius of gyration of its cross-section is 5, the slenderness ratio of the stanchion is

A) 60

B) 70

C) 80

D) 90

9. The most economical section for a column is

A) rectangular

B) solid round

C) flat strip

D) tubular section

10. Which of the following statement is correct for sprinkler irrigation method?

A) It is used for rice and jute

B) It is used for the soil has very low infiltration rate

C) It is best suitable for very light soil

D) It requires borders and field channel

Answer Keys

Question	Answer
1	A
2	C
3	C
4	C
5	A

Question	Answer
6	C
7	C
8	C
9	D
10	C