

QUIZ NO: 548

**TOPIC: GEOTECHNICAL
ENGINEERING**

DATE: 29/01/2022

1. Sand passing through IS Sieve 3.175 mm is

- [A] Fine sand
- [B] Gravelly sand
- [C] Pebble sand
- [D] Coarse sand

Answer: D

2. The ratio of volume of air voids to the volume of voids is called

- [A] Porosity
- [B] Void density
- [C] Air content
- [D] Permeability

Answer: C

3. What is the maximum bearing capacity of black cotton soil

- [A] 10 t/m²
- [B] 15 t/m²
- [C] 165 t/m²
- [D] 45 t/m²

Answer: B

4. Aeolian soil is transported by

- [A] Wind
- [B] Water
- [C] Glacier
- [D] Gravity

Answer: A

5. Soil formed by the accumulation of decay and chemically deposited vegetable matter under the condition of excessive moisture is

- [A] Alluvial soil
- [B] Aeolian soil
- [C] Colluvial soil
- [D] Cumulose soil

Answer: D

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6. The fineness modulus of fine aggregate is

[A] 2 – 3.5

[B] 3.5 - 5

[C] 5 - 7

[D] 6 – 8.5

Answer: A

7. When the plasticity index of soil is zero, then the soil is

[A] Clay

[B] Silt

[C] Sand

[D] Silty sand

Answer: C

8. Water content of soil is 0.15, degree of saturation is 70%, voids ratio is 0.61, then specific gravity is

[A] 2.85

[B] 2.13

[C] 2.50

[D] 2.17

Answer: A

9. Which soil sample have grains of almost same size particles

- [A] Well graded
- [B] Good graded
- [C] Gap graded
- [D] Poor graded

Answer: D

10. Rankine's theory of earth pressure assumes that the back of the wall is

- [A] Plane and smooth
- [B] Plane and rough
- [C] Vertical and smooth
- [D] Vertical and rough

Answer: C

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