

QUIZ NO: 820

TOPIC: GEOTECHNICAL ENGINEERING

DATE: 23/04/2024

1. The soil formed by weathering action on rock and remain at the place of formation is called as

- [A] Alluvial soil
- [B] Residual soil
- [C] Marine soil
- [D] Aeolian soil

Answer: B

2. What are the three main types of chemical weathering?

- [A] Solution, hydration, and reduction
- [B] Solution, reduction, and chelation
- [C] Hydrolysis, carbonation, and oxidation
- [D] Solution, carbonation, and oxidation

Answer: C

3. Geologic cycle for the formation of soil is

- [A] Upheaval → transportation → deposition → weathering
- [B] Weathering → upheaval → transportation → deposition
- [C] Transportation → upheaval → weathering → deposition
- [D] Weathering → transportation → deposition → upheaval

Answer: D

4. Soil in a three-phase system comprises of _____:

- [A] Solids and water only
- [B] Sand, gravel and air
- [C] Solids, water and air
- [D] Solids and air only

Answer: C

5. The relationship between void ratio e and porosity n is given by

- [A] $n = 1+e / 1-e$
- [B] $e = 1+n / 1-n$
- [C] $n = e / 1-e$
- [D] $e = n \times (1 + e)$

Answer: D

6. Transporting and redepositing soils, is done by

- [A] Water
- [B] Glacier
- [C] Gravity
- [D] All the above

Answer: D

7. Pick up the correct statement from the following:

- [A] The void space between the soil grains, is filled partly with air and partly with water
- [B] In perfectly saturated soil, the voids are completely filled with water
- [C] In dry soil, the voids are completely filled with air
- [D] All the above

Answer: D

8. Colluvial soils (talus) are transported by:

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

Answer: C

9. Drift is the material picked up, mixed, disintegrated, transported and redeposited by:

- [A] Wind
- [B] Gravitational force
- [C] Glaciated water
- [D] All the above

Answer: C

10. The black cotton soil

- [A] Undergoes volumetric changes
- [B] Swells excessively when wet
- [C] Shrinks excessively when dry
- [D] All the above

Answer: D

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