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Q : 57) During the flow over length of 30 m, the head loss of 5 m is occurred during the seepage. What is the value of hydraulic gradient?

A : 0.005

B : 0.045

C : 0.167

D : 0.192

Q : 58) If the sp. Gr. of the soil is represented by G and the void ratio is e , the hydraulic gradient i is expressed as

A : $\frac{G-1}{1+e}$

B : $\frac{G-1}{1+e}$

C : $\frac{G-1}{1+e}$

D : $\frac{G-1}{1+e}$

Q : 59) If the void ratio and discharge vischarge velocity for soil is 0.5 and 6×10^{-7} m/s respectively, what is the value of seepage velocity (m/s)?

A : 3×10^{-7}

B : 6×10^{-7}

C : 12×10^{-7}

D : 18×10^{-7}

Q : 60) The unit of the coefficient of consolidation is:

A : cm/gm

B : cm²/sec

C : gm/cm²

D : gm-cm/sec

Q : 61) The consolidation time for soils.

A : Increases with increasing compressibility

B : Decreases with increasing permeability

C : Is independent of the stress change

D : All of the above

Q : 62) The coefficient of compressibility of soil, the ratio of:

A : Stress to strain

B : Strain to stress

C : Stress to settlement

D : Rate of loading to that of settlement

Q : 63) Which one of the following shows time factor (approximate), for 50% degree of consolidation?

A : 0.2

B : 0.5

C : 1

D : 2

Q : 64) The pore water pressure in the soil sample of consolidometer test is.....

A : Maximum at bottom

B : Maximum at centre

C : Maximum at top

D : Minimum at center

Q : 65) The clay deposit of thickness 10 cm and void ratio 0.5 undergoes settlement and now its final void ratio is 0.2. The thickness (cm) of the settlement layer.

A : 1

B : 1.5

C : 2

D : 2.5

Q : 66) In triaxial compression test on a soil specimen, the intermediate principle stress is equal to

A : Major principal stress

B : Minor principal stress

C : Difference between major and minor principal stress

D : None of these

- Q : 67) In triaxial test, the intermediate principal stress is:**
- A : Equal to zero**
 - B : Equal to confining pressure**
 - C : Equal to deviator stress**
 - D : Equal to deviator stress minus the confining stress**

Q : 68) A footing is resting on fully saturated clayey strata for checking the initial stability, shear parameter are used from:

A : Consolidated undrained test

B : Unconsolidated drained test

C : Unconsolidated undrained test

D : Unconsolidated undrained test with pore pressure measurement

Q : 69) Unconfined compressive strength test is:

A : Undrained test

B : Drained test

C : Consolidated undrained test

D : None of the above

Q : 70) Vane shear test is used to find out shear strength of:

A : Sandy soil

B : Gravelly soil

C : Clayey soil

D : All options are correct

Q : 71) The cell pressure and pore water pressure is increased from 0.1 N/sq.m to 0.26 N/sq.m and 0.07 N/sq.m to 0.15 N/sq.m respectively in the triaxial test. The skempton's pore pressure is given by.....

A : -3

B : -0.5

C : 0.5

D : 2

Q : 72) Which of the following parameter is determined by triaxial test?

A : Hydraulic gradient

B : Permeability

C : Shear strength parameters

D : Grain size

Q : 73) The angle of repose of a soil is the maximum angle which the outer face of the soil mass makes.

A : With the horizontal

B : With the vertical

C : With the perpendicular to the inclined plane of the soil

D : None of these



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