

# Download File PDF Soil Mechanics Exams Questions Solution

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## Soil Mechanics and Foundation Engineering

### Question No. 01

A plane inclined at an angle  $\psi$  to the horizontal at which the soil is expected to stay in the absence of any lateral support, is known as

- (A) Natural slope line
- (B) Repose line
- (C) The  $\phi$  line
- (D) All the above

Answer: Option D

### Question No. 02

Rise of water table above the ground surface causes

- (A) Equal increase in pore water pressure and total stress
- (B) Equal decrease in pore water pressure and total stress
- (C) Increase in pore water pressure but decrease in total stress
- (D) Decrease in pore water pressure but increase in total stress

Answer: Option A

### Question No. 03

Terrazgi's theory of one dimensional consolidation assumes

- (A) Soil is homogeneous and fully saturated
- (B) Water and soil particles are incompressible
- (C) Deformation of the soil, is entirely due to change in volume
- (D) All the above

Answer: Option D

### Question No. 04

If the material of the base of the Casagrande liquid limit device on which the cup containing soil paste drops is softer than the standard hard rubber, then

- (A) The liquid limit of soil always increases
- (B) The liquid limit of soil always decreases
- (C) The liquid limit of soil may increase
- (D) The liquid limit of soil may decrease

Answer: Option A

### Question No. 05

A triaxial shear test is preferred to direct shear test, because

- (A) It can be performed under all three drainage conditions with complete control
- (B) Precise measurement of pore pressure and change in volume during test, is not possible
- (C) Stress distribution on the failure plane, is non-uniform
- (D) None of these

Answer: Option A

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