

No 3 CE Board Exam May 2016 Hydraulics & Geotechnical Eng'g.

A square footing 4 m. on a side is founded 1.2 m below the ground surface for which the bulk unit weight of the soil is 20 kN/m^3 , the cohesion strength is 10 kpa and the angle of internal friction is 20 degrees. Under the condition of general failure, evaluate the contribution of the following to the ultimate soil bearing capacity in kpa. The ground water table is at a level that does not affect the unit weight of the soil. Use Terzaghi's bearing capacity factors.

$$N_c = 17.69 \quad N_q = 7.44$$

$$N_\gamma = 3.64 \quad (\text{From table for } \phi = 20^\circ)$$

Solution

Cohesion factor

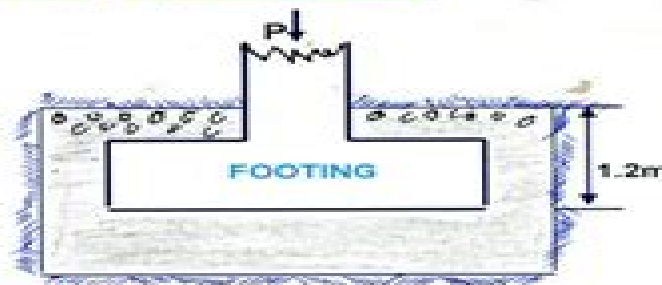
$$q_u = 1.3CN_c + qN_q + .4\gamma BN_\gamma$$

$$\text{Cohesion strength} = 1.3CN_c$$

$$\text{Cohesion strength } 1.3(10)(17.69) = 229.97 \text{ kPa}$$

$$\text{Soil overburden } \text{Soil overburden} = qN_q = 20(1.2)(7.44) = 178.56 \text{ kPa}$$

$$\text{Footing Dimention: } .4\gamma BN_\gamma = .4(20)(4)(3.64) = 116.48 \text{ kPa}$$



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A cohesive soil deposit is considered soft If the unconfined compression strength in kPa is

- a) 0 to 24 b) 48 to 96 c) 96 to 192 **d) 24 to 48 Answer is D**

No 15 CE Board Exam May 2016 Hydraulics & Geotechnical Eng'g.

A pressure surge or waves caused when a fluid in motion is forced to stop or change in direction suddenly (momentum change) is referred to in Hydraulics as

- a) **water hammer** b) potential head c) hydraulic jump d) hydrodynamics

The answer is a

A **water hammer** commonly occurs when a valve closes suddenly at an end of a pipeline system, and a pressure wave propagates in the pipe. It is also called **hydraulic shock**.

nd exam.

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