

$$C = 15 \text{ kN/m}^2$$

$$\gamma = 18.15 \text{ kN/m}^3$$

$$\gamma_{sat} = 23 \text{ kN/m}^3$$

$$N_c = 4$$

$$N_q = 8$$

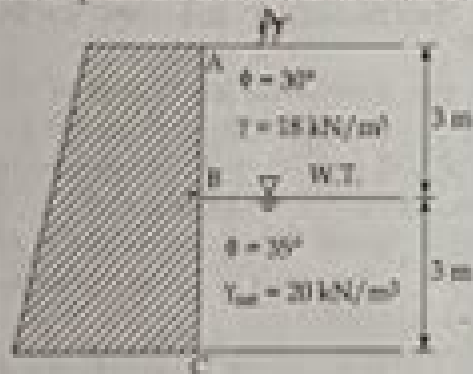
$$N_{\gamma} = 15$$

Determine ultimate bearing capacity of soil if:

- water table is at base of footing
- water table is at ground level

4. a) Write down the assumptions made by Terzaghi in his bearing capacity theory. Explain the Mohr's stress circle with neat sketch. [4+4]

b) Find the active earth pressure and its reaction for the retaining wall shown below. [8]



## SOIL MECHANICS

Examination 2073 Regular/Back

Time: 3 hrs.

Full marks: 80  
Pass marks: 32

4. a) Define consolidation and write the types of consolidation. [2+2]
- b) Following are the result of a laboratory specimen? Dry mass of specimen is 125 gm, height of the test is 2.54 cm,  $C_c = 2.75$  and area of cross-section is 30 cm<sup>2</sup>. Determine the coefficient of permeability and coefficient of consolidation for the determination of coefficient of permeability.

Effective pressure (kN/m <sup>2</sup> )	Height of the specimen (cm)
0	2.54
50	2.54
100	2.54
200	2.54
400	2.54
800	2.54

5. a) How Mohr's circle is useful in determining failure planes? Explain. [2+2]
- b) Explain Rankine's theory for active earth pressure. [2+2]
6. a) What are the types of foundation? Write down the types of foundation. [2+2]
- b) A strip footing 2 m wide is supported on a soil 1.5 m below the ground surface. The soil has  $C = 15 \text{ kN/m}^2$ ,  $\gamma = 18.15 \text{ kN/m}^3$ ,  $N_c = 4$ ,  $N_q = 8$ , and  $N_{\gamma} = 15$ . Determine ultimate bearing capacity of the soil if water table is at base of footing.

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**Purdue University**



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**Education and Training in Geo-Engineering Sciences** Iacint Manoliu, Nicoleta Radulescu, 2008-05-20 Covering a broad range of topics curricular matters in geo engineering education teaching learning and assessment in geo engineering education challenges in geotechnical engineering education issues in education and training in Engineering Geology the link university professional world in geo engineering this book will be invaluable to university teachers academics and professionals involved in education and training in geo engineering sciences

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