Total No. of Questions : 8] *[Total No. of Printed Pages : 1*

Roll No .....

CE-801 (GS)

B.E. VIII Semester Examination, June 2020

Grading System (GS)

Geo. Technical Engineering - II

Time : Three Hours

Maximum Marks : 70

Note: i) Attempt any five questions.
ii) All questions carry equal marks.

1. Write the equations given by Terzaghi for square and circular footings to determine ultimate bearing capacity.

2. What is difference between shallow and deep foundation?

3. Differentiate between the general shear failure and the local shear failure. How the ultimate bearing capacity in local shear is determined?

4. What are various soil stabilization techniques? Briefly explain any one.

5. What are the criteria as per IS code for design of foundation for impact type of machine?

6. Explain Taylor's stability number.

   OR

   Explain Culmann's graphical method and also its advantages.

7. With the help of a neat sketch, explain in detail the design consideration for mechanically stabilized earth structures.

8. Write short notes on any two of the following:
   i) Plate load test
   ii) Anchored sheet piles
   iii) Cofferdams
   iv) Electrical-stabilization

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