

SOIL AND FOUNDATION ENGINEERING
5th Exam/Civil/2517/May'19

Duration: 3Hrs.

SECTION-A

M.Marks:75

Q1. a) Fill in the blanks.

15x1=15

- i. Soil are derived from _____
 - ii. _____ is defined as ratio of volume of voids to the total volume.
 - iii. The water content at which soil changes from liquid state to plastic state is known as _____
 - iv. _____ is valid if the flow through soil is laminar.
 - v. The effective stress is an _____ quantity.
 - vi. The upward movement of soil is known as _____
 - vii. The property of soil which enables the soil mass to resist sliding along internal surface is called _____
 - viii. Voids of soil mass _____ during compaction.
 - ix. The plate load test is used to determine _____
 - x. Sample collected by auger boring is _____
- b) State True or False.
- xi. Clay particles can be seen with naked eyes.
 - xii. Black cotton soils of India are residual soil deposits.
 - xiii. Shear strength of a soil is independent of magnitude and mode of application of load.
 - xiv. Maximum compaction is attained at OMC
 - xv. Net safe bearing capacity and ultimate bearing capacity are same.

SECTION-B

6x5=30

Q2. Attempt any six questions.

- a. Define degree of saturation and water content.
- b. What are the effects of shape of particles of soil on engineering properties of soil?
- c. Write a short note on seepage velocity.
- d. What is the importance of effective stress?
- e. Write a short note on settlement due to construction operation.
- f. What are the factors contributing to shear strength of soil?
- g. State the necessity of compaction for the soil.
- h. Explain briefly the concept of bearing capacity
- i. What is soil exploration? What is its aim?

SECTION-C

3x10=30

Q3. Attempt any three questions.

- i. Explain in detail the unconfined compression test. Give sketch of the apparatus and write how it works.
- ii. What are the duties of embankment supervisor in relation to compaction?
- iii. Explain in detail presentation of soil investigation result.
- iv. What are the various factors affecting depth of shallow foundation? Discuss them.
- v. What are the types of shallow foundation and their suitability?

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