

Q.5 Bearing capacity of soil tells us:

- a) Colour of soil
- b) Load-carrying capacity
- c) Type of plant growth
- d) Water content

Q.6 Soil found in Haryana plains is called:

- a) Alluvial soil b) Red soil
- c) Black soil d) Laterite soil

SECTION-B

Note: Objective/ Completion type questions. All questions are compulsory. (6x1=6)

Q.7 Clayey soil has _____ permeability.

Q.8 _____ method is used to find field density of soil.

Q.9 _____ is the ability of soil to resist shear.

Q.10 Sandy soil has high permeability. True/False

Q.11 Clay is a cohesive soil. True/False

Q.12 Black cotton soil belongs to the _____ type of soil.

SECTION-C

Note: Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

Q.13 Describe Alluvial soil and Loess soil.

Q.14 What is permeability? Write two uses of it.

Q.15 Describe plastic limit and liquid limit.

Q.16 Explain core cutter method briefly.

Q.17 Define Total stress, effective stress and neutral stress.

Q.18 Describe Optimum water content and Maximum dry density.

Q.19 Enlist any five uses of a proctor test.

Q.20 What are the factors which affect permeability. (any five)

Q.21 Name four engineering properties of soil.

Q.22 A soil sample has a void ratio of 0.65 Calculate its porosity.

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x8=16)

Q.23 Explain the methods of improving bearing capacity of soil.

Q.24 Explain different types of soil sampling.

Q.25 Explain the particle size classification of soil.