

 All questions are compulsory.
Assume suitable data if necessary. 3.Due to remoulding of clay, the strength ...

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Q. 1 Answer the following a) Y b) Yb c) Yst d) Ys 2. For a given soil, following unit weight remains constant c) Soil deposited in lake d) soil formed by vegetation matter . Lacustrine soil is..... a) soil deposited in sea b) Windblown deposit L1/C01 L1/C01

5. The biggest size of clay particle is... a) decreases b) increases c) remains constant 4.At shrinkage limit, degree of saturation is- a) 0% b) 50% c) 75% d) 100% L1/C01 L1/C01 L1/C01

With the rise of temperature, permeability ... a) 0.0002 mm b) 0.002 mm c) 0.02 mm d) 0.075 mm a)increases b) decreases c) remains constant d) none 11/C0

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Q.2 Solve Any Two of the following

(C) The void ratio and specific gravity of soil sample are 0.65 and 2.65 resp., while (A) Explain void ratio, porosity and prove that n = e / (1+e) (B) Explain constant head permeability test with neat sketch.

voids are 90% saturated. Find bulk density, dry density and water content,

Q. 3 Solve Any One of the following. (A) What is coefficient of permeability? Derive the equation for average permeability perpendicular to bedding plane. L3/C01

(B) Explain three phase system of soil and prove that $Y_d = GY_w/(1+e)$

L3/C01

*** End ***

12/C01 12/CO1

12/CO1

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Ty civil.

Mid Semester Examination - Sept./Oct. 2019

Subject Code: BTCVC 503

Subject Name: Soil Mechanics Course: B. Tech in Civil Engineering

Max Marks: 20

Date: -24/09/2019

Instructions to the Students:

Duration:- 1 Hr.

(Level/CO) Marks