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SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)

B.Tech III Year I Semester Regular Examinations March-2023

FOUNDATION ENGINEERING

(Civil Engineering)

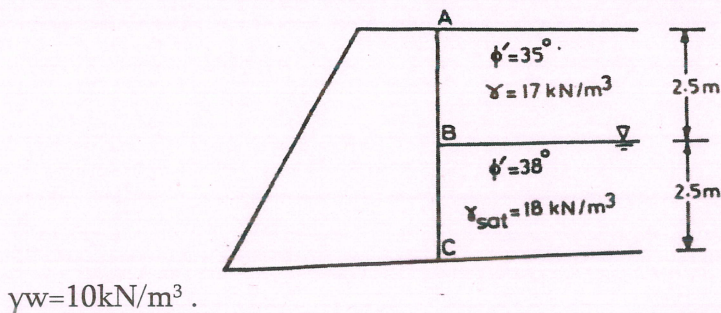
Time: 3 hours

Max. Marks: 60

(Answer all Five Units 5 x 12 = 60 Marks)

UNIT-I

- 1 Determine the active pressure on the retaining wall as shown in fig. Take CO1 L3 12M



OR

- 2 With the help of neat sketch explain design of gravity retaining walls. CO1 L2 12M

UNIT-II

- 3 Discuss effect of water table on the bearing capacity of the soil with neat sketch. CO2 L2 12M

OR

- 4 Discuss the various methods of determination of allowable soil pressure in cohesion less soils CO2 L2 12M

UNIT-III

- 5 How would you estimate the load carrying capacity of a pile in (i) cohesion less soils (ii) Cohesive soils by using static methods. CO3 L2 12M

OR

- 6 How would you estimate the group action of piles in (i) sand (ii) clay CO4 L2 12M

UNIT-IV

- 7 Explain different shapes of wells with neat sketch. CO5 L1 12M

OR

- 8 What are the advantages and disadvantages of Floating caisson and discuss stability of floating caisson during flotation? CO5 L1 12M

UNIT-V

- 9 Explain the pressure distribution and stability of free cantilever sheet pile with neat sketch. CO6 L1 12M

OR

- 10 What are different anchors used in sheet pile walls? Explain the design of anchor plates and beams with neat sketch. CO6 L2 12M

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