MASINDE MULIRO OF SCIENCE AND TECHNOLOGY

DEPARTMENT OF CIVIL AND STRUCTURAL ENGINEERING

CSE 321 SOIL MECHANICS II

CAT TWO **DATE: 10TH JANUARY 2025**

Analyze the stability of the cantilever retaining wall shown in the figure. The approximate parameters for the retained soil are c = 0, Ø = 35° and γ = 16 kN/m^3. The unit weight concrete is 24kN/m^3. The water table is below the base of the wall. Take δ = 27° on the base of the wall. Allowable bearing capacity of the soil below the base is 300 kN/m^2 and the retaining wall height is 6 m.