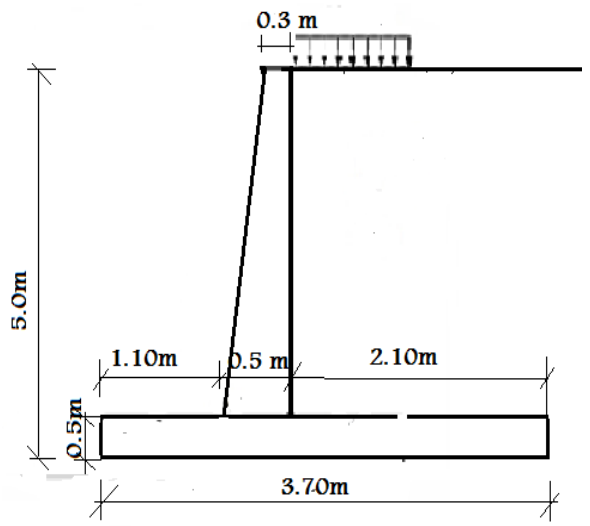
Course No: CON.5306
Course Title: Advanced Structural Design
Date: 24/10/2017
No. of Questions: (2)
Time: 1hours
Using Calculator

University of Palestine

First Midterm Exam
First Semester 2017/2018
Total Grade:

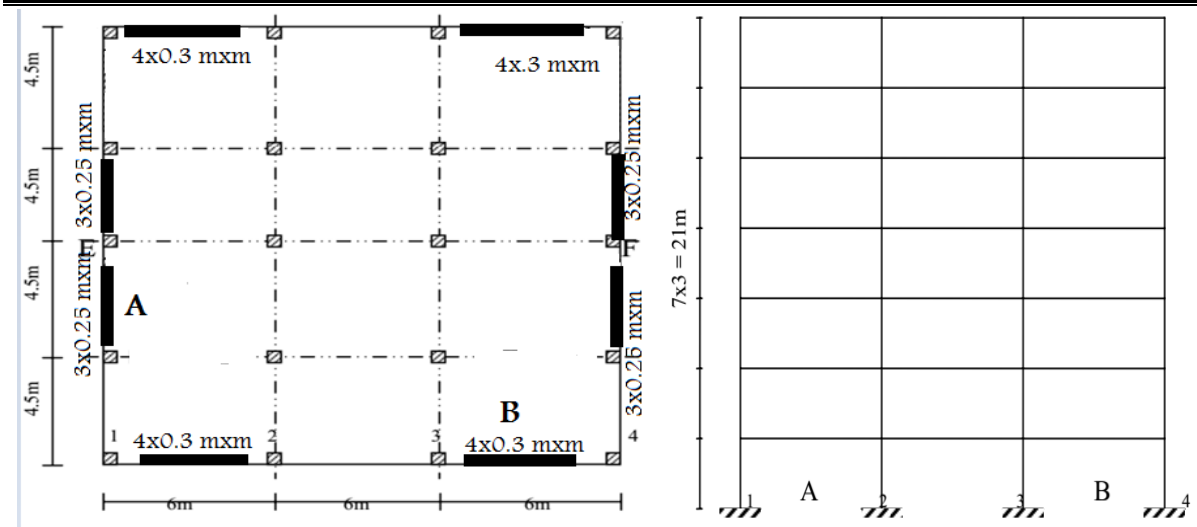
Instructor Name :Dr. Ayed Zuhud
Student No.: _____
Student Name: _____
College Name: _____
Dep. / Specialist: _____
Using Dictionary (No)

Question One:



If you know that the allowable net bearing capacity=180 KN/m^2 and the angle of friction and cohesion ***of soil under the base of retaining wall are*** Ø = 33^o &9.0KN/m^2 respectively, Check the stability for the shown concrete cantilever retaining wall designed to resist earth pressure of soil with Ø=28.5^o ,γ = 16.3 KN/m^3 and surcharge of 35 KN/m^2

Question Two:



A seven-story building frame system (residential) with shear walls has the dimensions shown in the Figure. The total sustained dead load is 800 kg/m2. This building is located in Gaza Strip and lies on top of a deep clayey deposit(S_D). Eight shear walls, with the dimensions shown in the figure a lateral force resisting system. Determine the seismic shear loads at the fourth story level acting on shear wall A& B using 1997 UBC.

End of Questions
Good Luck

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