

Benha Faculty of Engineering

Date: 16-6-2021

Semester: Second Term

Examiner: Assoc. prof. Ayman

Abd El Hamid - Dr. Rasha Reyad No. of Pages: 2 Pages

- Dr. Noha Hefnawy **Total Points: 75 Marks** **Department: Civil Department**

Program: Bachelor Time: 3 Hours

Subject: Architectural Engineering

Code: CE 1208



Model Answer of Final Examination

Question ① **35** marks

The following drawing indicates roughly plan view for a studio house. You are required to:

Questions	Criteria	Marks
A. Draw the working drawing of the ground floor plan. (Scale 1/50) (25 Marks)	Axis	4 Mark
	Structural Elements	6 Mark
	Inner Dimensions	2 Mark
	Outer Dimensions	2 Mark
	Doors	2 Mark
	Windows	2Mark
	Levels	2 Mark
	Stairs	2 Mark
	Name of Spaces and Finishing Materials	2 Mark
	Drawing Quality	1 Mark
B. Draw the working drawing of Elevation A. (scale 1/50) (10 Marks)	Axis	1 Mark
	Projection	4 Marks
	Dimensions	2 Marks
	Levels	1 Marks
	Openings	1 Mark
	Finishing Materials	1 Mark

(10 marks**) Question 2**

Draw (in scale 1:10) a two subsequent courses of 25*25 cm "QUION" (L) of a masonry brick wall (Flemish bond). (10 Marks)

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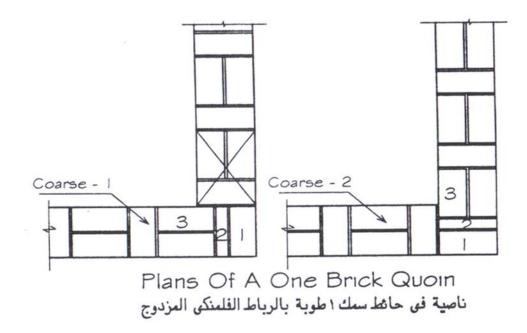
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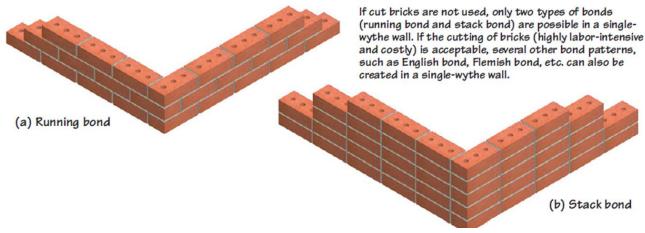


Question 3 (15 marks)

Compare using freehand sketching & data for the following items:

A. Stack bond & running bond in masonry works.

(7 Marks)



B. Loose fill insulation Material &Semi rigid Insulation Material.

(8 Marks)



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(15 marks) Question 4

The following drawing indicates partial wall section A-A of a Storage building. The designer intends to use a Skelton structure system. You are required to draw the detailed wall section with all layers: (Scale 1:20).



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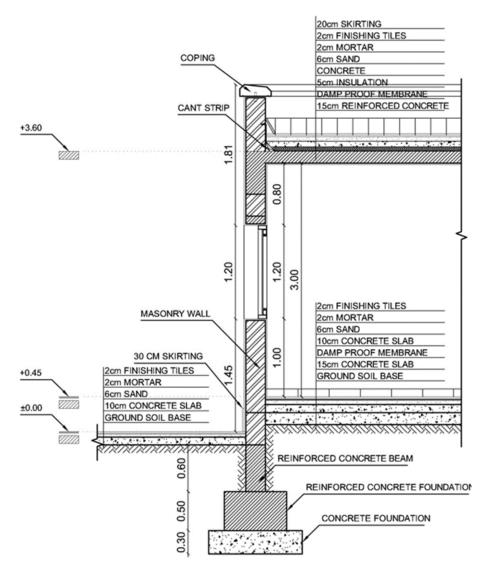
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Notes:

- Assume any missing data.
- Labels and annotations are integral part of all required drawings.
- Neatness of drawings and precision of lines will be regarded in grading.

Best wishes

End of the exam