



Benha University
 Benha Faculty of Engineering
 Date: 10-6-2021
 Semester: Second Term
 Examiner: Dr. Noha Hefnawy-
 Assoc. prof. Mona Yehia- Dr.
 Ahmed AlSaadany
 Total Points: 60 Marks

Department: Architectural Department
 Program: Bachelor
 Time: 4 Hours
 Subject: Building Construction 1B
 Code: AE 1122
 No. of Pages: 2 Pages



Model Answer of Final Examination

Question ①

﴿ 35 marks ﴾

Question	Criteria	Marks
A. Draw to scale 1:50 a full detailed Architectural Plan showing structural systems, furniture, dimensions, levels and finishing materials. (20 Marks)	Main axes	2
	Structural elements (assigning suitable system)	4
	Furnishing	2
	Dimensions	4
	Stairs	2
	Openings (drawing and numbering)	4
	Finishing materials	1
	Drawing quality	1
B. Draw to scale 1:50 a looking up Plan. (5 Marks)	Main axes (vertical and horizontal) and dimensions	1
	Structural elements (assigning suitable system)	2.5
	Structural Joints	1
	Drawing quality	0.5
C. Draw to scale 1:50 section A-A showing dimensions, levels and finishing materials. (10 Marks)	Main axes (vertical and horizontal) and dimensions	2
	Structural elements (assigning suitable system)	3
	Levels and dimensions	1
	Finishing materials	1
	Openings (drawing and orientation)	1
	Structural joints	1
Drawing quality	1	

Question ②

﴿ 10 marks ﴾

Question	Criteria	Marks
Using appropriate line types and symbols, assign all technical installations (electrical and sanitary) on the attached plan. (10 Marks)	Electrical Installations	4
	Sanitary	4
	List of Symbols	2

Question ③

﴿ 10 marks ﴾

Question	Criteria	Marks
A. Draw a section in R.C. entrance stairs consist of 3 steps. (Scale 1:10) (5 Marks)	Accuracy of stair details	3
	Labels and Dimensions	1
	Drawing quality	1
B. A section in Wood joist framing in floors (Scale 1:10). (5 Marks)	Accuracy of the details	3
	Labels and Dimensions	1
	Drawing quality	1



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Question ④

﴿ 5 marks ﴾

Questions	Criteria	Marks
According to your research studies, assign THREE different types of building/ finishing materials using sketches as possible. (5 Marks)	Assign three different types of building/ finishing materials	3
	Using Sketches and labeling	2

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