Course No: ARCH3311
Course Title: Building construction (1)
Date: 15/01/2018
No. of Questions: (4)
Time: 2 hours

University of Palestine

Final Exam
2017/2018
Total Grade:30

Instructor Name: دعلي تاية د مفيد بركة
Student No.: _____
Student Name: _____
College Name: _____
Dep. / Specialist: _____
Using Dictionary (No)

The first question:Choose the correct answer:-(10 degrees)

1- The length of the riser in the stairs is between -----
A. 11 – 12.5cm
B. 12 – 13.5cm
C. 13 – 14.5cm
D. 15 - 17.5cm

2- Dimensions of glass bricks
A. 20*20*7cm
B. 15*15*5cm
C. 25*25*8cm
D.20*20*10cm

3-Concrete cover forSlab beams (spacers)
A. 2.5 cm
B. 5 cm
C. 7 cm
D. 10 cm

4- The foundations are placed below ground level, to increase
A. strength
B. workability
C. stability of structure
D. all the above.

5- The under surface of an arch, is called
A. soffit
B. intrados
C. haunch
D. back.

6- While designing a stair, the product of rise and going is approximately kept equal to
A. 350
B. 420
C. 450
D. 500
E. 600.

7- Expansion joints in masonry walls are provided if length exceeds
A. 10 m
B. 20 m
C. 30 m
D. 40 m
E. 50 m.

8- The columns of multi-storeyed buildings are designed to withstand the forces due to
A. dead loads
B. live loads
C. wind loads
D. earthquakes
E. all of these.

9- The stone whose crushing strength is least, is

A. granite
B. chalk
C. marble
D. slate
E. sand stone.

10- Which of these is not part of the structural system of a building?

A. Foundations
B. Doors & Windows
C. Columns & Beams
D. Roof Framing Systems

Second Question:-Define these items:- **(10 degrees)**

1. **Concrete Cantilevers**

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2. **Concrete slabs**

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3. **Concrete beams**

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4. **Mortar**

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5. **Isolation**

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6. **Brickbuilding**

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7. **Expansion joints**

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Third Question: Answer the following questions:- **(22 degrees)**

1) **What are the advantages of brick construction?(4 degree)**

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2) **Reinforcementconcrete Slabs with hollow blocks (Ribs Slabs),with sketch.(2 degree)**

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3) **What are the types of bricks in Gaza?(2 degree)**

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4) **What are the types of natural stone construction? (3 degree)**

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5) What are the types of structural joints? (4degree)

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6) Mention the most important functions of construction joints?(2 degree)

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7) What are the components of the stairswith drawings? (3 degree)

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8)The retaining walls are divided into four types . mention it?(2 degree)

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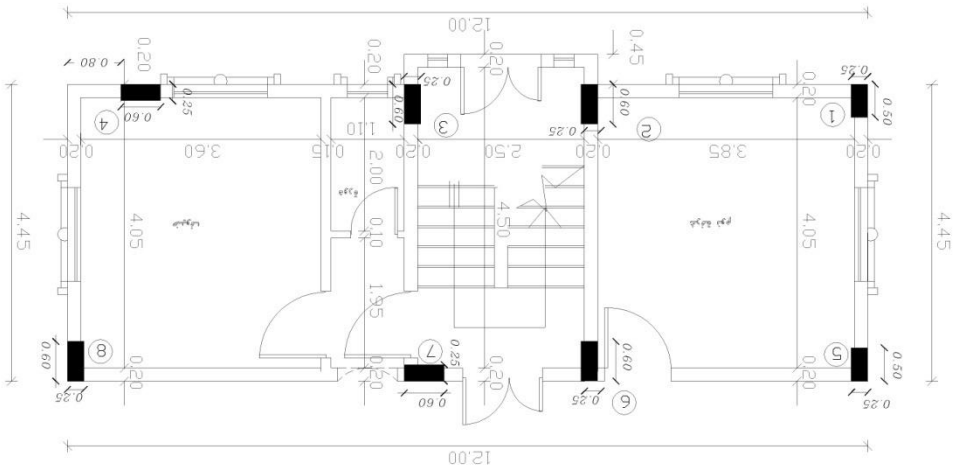
Fourth Question:-(18 degrees)

a. Draw the columns axes of the diagram shown in Fig.



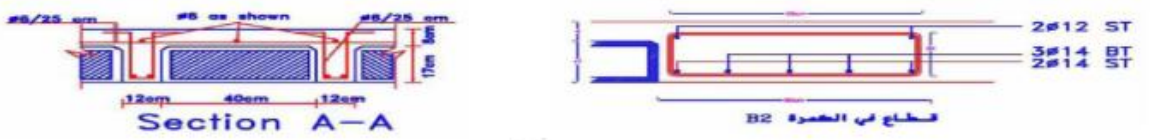
b. Draw slab beams cross section (B1, b3) as the following table.

- **B1**

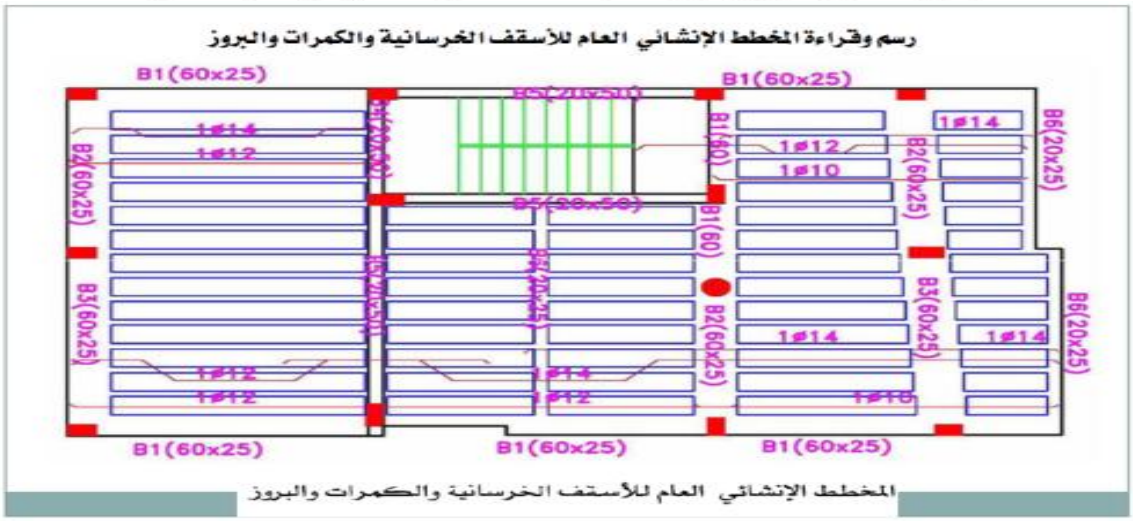
- **B3**

BEAMS TABLE

BEAMS	DIMENSION (cm)		BOTTOM REINF.		TOP REINF.	STIRRUPS	
	Width	Hight				At Ends Of Span	In The Middle Of Span
B1	60	25	2 #14	2 #14	2 #12	1#8/10cm	1#8/20cm
B2	60	25	2 #14	3 #14	2 #12	1#8/10cm	1#8/20cm
B3	60	25	2 #14	4 #14	2 #12	1#8/10cm	1#8/20cm
B4	20	50	2 #14	2 #14	2 #12	1#8/10cm	1#8/20cm
B5	20	20	3 #14	3 #14	2 #12	1#8/10cm	1#8/20cm
B6	20	25	2 #12	---	2 #12	1#6/20cm	1#6/20cm



جدول تفاصيل نموذج جدول كمرات الأسقف والتفاصيل الإنشائية لمقاطع السقف



مع تمنياتنا لكم بالنجاح والتوفيق