

Course No: ARCH3311
Course Title: Building
construction (1)
Date: 29/11/2017
No. of Questions: (3)
Time: 60 min.

University of Palestine



Midterm Exam 2
2017/2018
Total Grade:10

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

The first question: Choose the correct answer:- (7 degrees)

(1) The foundation in which a cantilever beam is provided to join two footings, is known as

- A. strip footing
- B. strap footing
- C. combined footing
- D. raft footing
- E. none of these.

(2) Raft foundation are generally preferred to when the area required for individual footing, is more than

- A. 25% to total area
- B. 30% of total area
- C. 40% to total area
- D. 60% of total area.

(3) A wall constructed to resist the pressure of an earth filling, is called

- A. retaining wall
- B. breast wall
- C. buttress
- D. parapet wall

(4) Concrete cover for Columns (spacers)

- A. 2.5 cm
- B. 5 cm
- C. 7 cm
- D. 10 cm

(5) Increase in water content in a cement concrete

- a. Increases workability
 - b. Increases the strength
- A. (a)
 - B. (b)
 - C. Both (a) & (b)
 - D. Neither (a) nor (b)

(6) The ----- is a cut through a building from above about 1.5m

- A. floor plan
- B. section
- C. site plan

(7) structural members running horizontally beneath a floor system

- A. Columns
- B. Beams
- C. Footings

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Second question:- Identify these items (8 degrees)

As built drawings

Stirrups

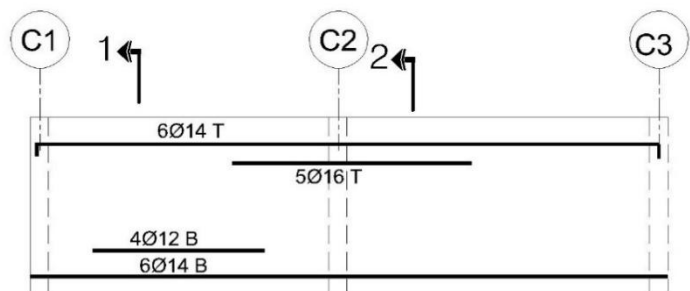
Neighbors footing

Concrete cover

Third question:- (5 degrees)

a. Draw the cross section 1&2 of the rectangular beam shown

Hidden Beam
90x25 $2\text{Ø}8@25\text{ cm}$



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section 1

section 2

b. Draw ground beams cross section (GB1, Gb3) as the following table.

TYPE	DIMENSIONS		BOTTOM REINF.		TOP REINF.	STIRRUPS
	WIDTH (cm)	HEIGHT (cm)	STRAIGHT	BENT		
G.B1	25	50	2 ϕ 14	2 ϕ 14	4 ϕ 12	ϕ 8/15cm
G.B2	25	50	2 ϕ 14	2 ϕ 14	3 ϕ 12	ϕ 8/15cm
G.B3	25	50	4 ϕ 12	—	4 ϕ 12	ϕ 8/15cm
G.B4	25	50	3 ϕ 14	3 ϕ 14	4 ϕ 12	ϕ 8/15cm

GB -1 , GB -3

مع تمنياتنا لكم بالنجاح والتوفيق