


Course No :	University of Palestine	Instructor: Dr. Hossam Elaqla
Course Title : Concrete Technology		Student Name: _____
Date : 27/03/2013		Student No.: _____
No. of Questions: 4		College Name: Engineering
Time : 1.5 hours	2013	Dept./ Specialist:
	Total grade : 20	Using Calculator (No)

Exam Instructions: Answer All Questions.

Question 1:

Complete the flowing:

Gypsum added to Portland cement clinker to

Hydraulic factor is

Question 2:

- A- What is segregation and bleeding? What are the general causes and its remedies?
- B- Give the composition of raw materials of cement in term of oxide and cement itself?
- C- What is the effect of finesse cement on concrete?

Question 3:

- A- What is the mission of cement in cementitious composites, and what is the difference between hydraulic and nonhydraulic cement?
- B- When and where we use Cement type III (high early strength) and Cement type V (sulphate resistance)?
- C- What is the positive and negative effect of increasing w/c ratio in concrete?

Question 4:

- A- Give all details about the side effect of Chloride and Iron Salt in reinforced concrete?
- B- What is the difference between Bulk and Apparent density of concrete?
- C- What is the difference between Natural Mineral and Synthetic aggregate, give examples?