

Course No: EAGD2208	University of Palestine  Applied Engineering & urban planning MIDTERM EXAM 2nd semester 2011/2012	Student No.:
Course Title: Materials & Construction Technology		Student Name:
Date: 29/03/2012		Instructor Name: Arch. Eman El shaikh khaleel
No. of Questions: 3		
Total Grade: 20		
Time: 60 minutes		

First Question	No. of Branches (2)	(8 marks)
(A) Put (T) at the end of the true sentence,(F) at the false sentence. (5)		
1. Iron Oxide is responsible for the gray color of cement		()
2. Dry process for cement's manufacturing is more costly than wet process.		()
3. Testing the Specific Density of Cement, is not for accept or not		()
4. Excess lime or excess magnesia in cement cause Unsoundness in cement		()
5. Superplasticizers are used to reduce water ,so it can increase the cement ratio		()
6. Placing the concrete at high temperatures, requires accelerators admixtures		()
7. Polystyrene block is used as thermal isolator because it couldn't be affected by sun and climate change .		()
8. Initial hardening of concrete is about 10 hours for ordinary cement.		()
9. Final setting is critical time; hence, concrete can't be placed .		()
10. Initial and final setting time tests are used to detect the deterioration of cement due to storage .		()

(B) How does design of concrete affects the properties of plastic and hardened concrete (3)
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(A) What are the factors affecting setting time, and how it can adapt with the environment of placing? **(2)**

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(B) how can the *water/cement ratio* and *finesse* affect the properties of concrete? **(4)**

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This table is for testing hollow block, Circle unacceptable values if it exists
Then write about physical and lab testing for blocks? (3)

Block	Dim. (cm)	H (mm)	w (mm)	L (mm)	We (Kg)
1	40*20*20	201	204	400	22
2	40*20*10	200	101	402	13
3	40*20*15	201	112	402	13
4	40*20*20	204	202	396	20

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How can you test the workability for concrete? (2)

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Good luck

