

Course No: CVL 2310
 Course Title: Concrete Technology
 Date: 19/4/2018
 No. of Questions: (3)
 Time: 1hours
 Using Calculator

University of Palestine

 First Middterm Exam
 Second Semester
 2017/2018
 Total Grade:

Instructor Name: Dr.Ayed Zuhud
 Student No.: _____
 Student Name: _____
 College Name: _____
 Dep. / Specialist: _____
 Using Dictionary-No –Closed book

Question One:

Mark the following phrases true or fouds between brackets

- 1) Consistency test of cement is taken out to find out the strength of cement ()
- 2) The initial set starts when the needle tip at 5.5 mm from the bottom ()
- 3) Fineness modulus is taken for cement paste not powder ()
- 4) To find the change of cement volume soundness test is needed ()
- 5) The change in diameter of soundness test is limited to 16 mm ()
- 6) Uniformly graded aggregate is the best type for gradation to produce concrete ()
- 7) Aggregate retained on sieve 9.5 mm are coarse aggregate ()
- 8) Admixtures are those ingredients in concrete other than Portland cement, water, and aggregates()
- 9) Generally sand must have fineness modulus 4.2 for making good concrete. ()
- 10) Using admixtures increases the cost of concrete ()

Question Two:

- 1-Using curves, show the types of aggregate gradation
- 2-Show the max size of aggregate that should be used on T concrete section.

Question Three:

| Size(mm) | Mass Retained (g) | Corrected (g) | Cumulative Retained (%) | Cumulative Passing (%) |
|----------|-------------------|---------------|-------------------------|------------------------|
| 9.25 | 0.0 | | | |
| 4.75 | 12.5 | | | |
| 2.36 | 76 | | | |
| 1.18 | 115 | | | |
| 600 | 106 | | | |
| 300 | 129 | | | |
| 150 | 86 | | | |
| 75 | 3.9 | | | |
| Pan | 2.5 | | | |

For the quantity of 550 gm aggregate, fill the empty cells in the shown table and calculate the fineness modulus

End of Questions –Good luck

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Good luck