

**COVENANT UNIVERSITY
NIGERIA**

*TUTORIAL KIT
OMEGA SEMESTER*

**PROGRAMME: BUILDING
TECHNOLOGY**

COURSE: BLD 211

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BLD 211: CONCRETE TECHNOLOGY AND WORKSHOP PRACTICE II

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Question 1

S/No	Water Ratio	Mass of Empty Can(Kg)	Mass of (Kg)Partially Compacted	Mass of Fitting Compacted
# 1	4 liters	7.50	15.01	18.75
# 2	5.2 liters	7.50	17.50	19.41

Use the above table to calculate compacting factor for a freshly mixed concrete in rows 1 & 2 above and analyze their suitability for concrete work.

Question 2

List all Sieve Sizes used in Sieve analysis test for both Fine and Coarse Aggregates.

Question 3

What are the practical procedures involved in conducting a Slump Test experiment in a laboratory.

Question 4

Explain and evaluate the method used in measuring the total air content in a given sample of aggregates.

Question 5

With the aid of neat diagram, describe a non-destructive apparatus used for concrete test.

Question 6

Describe the practical steps involved in carrying out Air-Entrainment test (employ necessary diagrams to aid your answer)

Question 7

What is the purpose of carrying out a Silt Content test for a given soil sample.

Question 8

Discuss Moisture Content in aggregate

Question 9

Explain why it is necessary to carry out fineness test on cement

Question 10

Differentiate between paint and painting in wall finishes

Question 11

List types of bonds used in block works

Question 12

Briefly discuss ten (10) properties of a good concrete

Question 13

With the aid of diagrams, list and describe safety signs and their colour segment

Question 14

Describe the stages involved in concrete ratio 1:2:4 mixture for construction work

Question 15

Explain the process involved in carrying out test for Liquid limit of a given sample soil.

List the equipment used in this solid experiment.