

NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY
FACULTY OF THE BUILT ENVIRONMENT
DEPARTMENT OF ARCHITECTURE
BACHELOR OF ARCHITECTURAL STUDIES (HONOURS) DEGREE
BACHELOR OF QUANTITY SURVEYING (HONOURS) DEGREE
2012-2013 ACADEMIC YEAR
PART I-SECOND SEMESTER SUPPLEMENTARY EXAMINATIONS- AUGUST
2013
AAR 1204 INTRODUCTION TO MATERIALS AND CONSTRUCTION II
AAR 1208 INTRODUCTION TO CONSTRUCTION MATERIALS II

Instructions

Time: 2 hours

Answer All Questions.

Illustrate your answers with sketches where appropriate. All questions carry EQUAL marks.

QUESTION 1

- a. State the properties of a good paint. (5)
- b. Describe any five types of paint used in construction (10)
- c. Discuss the different stages in the application of paint (10)

[25]

QUESTION 2

- a. Describe in detail the manufacturing process of float glass. (10)
- b. Write brief notes on safety glass. (9)
- c. Briefly describe the manufacturing processes of steel and aluminum. (6)

[25]

QUESTION 3

- a. Compare the two main types of plastics in their application in construction giving examples. (10)
- b. Discuss the degradation of plastics and how it can be reduced. (5)
- c. Explain what you understand by the term bitumen, how it is produced and its application in construction. (10)

[25]

QUESTION 4

A client wants to develop a hospital.

- a. Justifying your choice advise the client on the types of glass that they can use in a hospital they want designed. (10)

- b. Give advice on the performance of the following finishes they want to use:
 - i. wall paper
 - ii. carpet
 - iii. vinyl sheets
 - iv. ceramic tiles
 - v. terrazzo

(15)

[25]