

NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY

FACULTY OF THE BUILT ENVIRONMENT

DEPARTMENT OF ARCHITECTURE

BACHELOR OF ARCHITECTURAL STUDIES (HONOURS) DEGREE

2010-2011 ACADEMIC YEAR

PART I-SECOND SEMESTER SUPPLEMENTARY EXAMINATIONS-AUGUST 2011

AAR 1204 INTRODUCTION TO MATERIALS AND CONSTRUCTION II

Instructions

Time: 2 hours

Answer all questions.

Illustrate your answers with sketches where appropriate

QUESTION 1

- a. What are the causes of corrosion on metals used in Building Construction? [5]
- b. Discuss the plastering process. [15]
- c. What is the difference between plaster and mortar? [5]

QUESTION 2

- a. Discuss natural defects in timber and suggest how they can affect the qualities of timber used in building construction [15]
- b. Explain what you understand by the term bitumen and how is road tar produced [10]

QUESTION 3

- a. Discuss asbestos as a building material [10]
- b. Compare thermosetting and thermoset plastics[15]

QUESTION 4

- a. State and explain five market forms of steel. [15]
- b. Discuss steel as a building material. [10]