

NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY

FACULTY OF INDUSTRIAL TECHNOLOGY

DEPARTMENT OF TECHNICAL TEACHER EDUCATION

BACHELOR OF EDUCATION 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. Discuss the plastering process. [15]
- b. What is the difference between plaster and mortar? [5]

QUESTION 2

- a. Discuss natural defects in timber and explain how they can affect the qualities of timber used in building construction [15]
- b. Explain what you understand by the term bitumen[3]
- c. How is road tar produced? [7]

QUESTION 3

- a. Discuss the manufacture, uses and products of asbestos in building construction [10]
- b. Compare thermosetting and thermo plastics[15]

QUESTION 4

- a. State and explain five market forms of steel. [15]
- b. Discuss the advantages and disadvantages of steel use as a building material over other conventional materials [10]
- c. What are the causes of corrosion on metals used in Building Construction? [5]