

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 II-SECOND SEMESTER SUPPLEMENTARY EXAMINATIONS-AUGUST 2011

AAR 2202- BUILDING CONSTRUCTION II

Instructions

Duration: 4 Hours

Answer ALL questions. Use an appropriate scale for drawings.

Marks will be awarded to neatly presented work.

You can either draw in pencil or technical pen.

Number all your sheets and do not write your name.

QUESTION 1

- a. Define a floor giving its functional requirements[10]
- b. Underground water can penetrate a building through the floor. Explain with the aid of drawings how rising damp can be prevented from getting into a building.[10]
- c. Differentiate with the aid of scaled drawings a suspended timber solid ground floor and an upper concrete floor. Include the advantages and disadvantages of each. Assume floor to floor height to be 3m. Illustrate with appropriate sketches indicating various names of parts and components [40]

QUESTION 2

- a. What are the functional requirements of a fireplace [5]
- b. Sketch a detailed section through a fireplace showing various components[15]

QUESTION 3

- a. Discuss building finishes. [10]
- b. With the aid of illustrations show a roof with both a gable and a heaped end showing the various name parts and their functions. [10]