

NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY
FACULTY OF THE BUILT ENVIRONMENT

DEPARTMENT OF ARCHITECTURE
BACHELOR OF ARCHITECTURAL STUDIES (HONOURS) DEGREE
2012-2013 ACADEMIC YEAR

PART II SECOND SEMESTER SUPPLEMENTARY EXAMINATIONS – AUGUST 2013
AAR 2202 BUILDING CONSTRUCTION II

Instructions

Time : 4 Hours

Answer All Questions

Question 1 is to be answered on A1 sheet/s of paper.

You can draw either in pencil or technical pen only.

Number all your sheets.

Do not write your name on any sheet.

QUESTION 1

(a) Define a floor and also give its functional requirements. (10)

(b) Differentiate with the aid of scaled drawings a suspended timber 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. (30)

[40]

QUESTION 2

(a) i) Define a roof

(ii) What are the functional requirements of a good roof? (7)

(b) What are the factors to be considered in selecting roofing materials (6)

(c) Draw a neat sketch of a king post timber truss indicating the components (7)

[20]

QUESTION 3

Draw clearly labeled elevations and sections showing constructional details of the following:-

(a) Glazed door (10)

(b) Flush door

(10)

[20]

QUESTION 4

(a) What factors influence the design and location of a typical domestic fireplace?

(5)

(b) Provide a typical detailed vertical section through the throat of a fire place in a living room of a single storey building with a gable roof under concrete tiles. (15)

[20]