

NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY
FACULTY OF THE BUILT ENVIRONMENT

DEPARTMENT OF ARCHITECTURE
BACHELOR OF ARCHITECTURAL STUDIES (HONOURS) DEGREE

PART II SUPPLEMENTARY EXAMINATIONS – SEPTEMBER 2008
AAR 2102 – BUILDING CONSTRUCTION II

Instructions

Duration: 4 Hours

Answer all three(3) questions.

Question 1 is to be answered on a single title blocked A1 sheet separately

Marks will be awarded to neatly presented work.

You can draw either in pencil or technical pen.

Number all your sheets.

Do not write your name on any sheet.

QUESTION 1

- a) Draw a scale typical elevation of an axed arch spanning an opening of 1,2m to show as much as possible the technical terms associated with arch construction.
- b) Draw a plan ,an elevation and section of a casement window showing all relevant details to include water proofing

[50]

QUESTION 2

Write short notes with illustration on the following

- a) Distinguish between framed door and flush door (10)
- b) Stete the advantage of single joist timber floor. Explain with the help of sketches the construction of single timber joist floor of a room of size 3.0m by 4.5m (15)

[25]

QUESTION 3

- a) Explain with the help of sketches the following:
 - i. Couple roof
 - ii. Double close roof
 - iii. Collar beam roof
 - iv. Collar tie beam roof
- b) What precautions are necessary to be taken while excavating in very soft soil

[25]