#### **NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY** FACULTY OF ARCHITECTURE AND QUANTITY SURVEYING

#### **DEPARTMENT OF ARCHITECTURE** BACHELOR OF ARCHITECTURAL STUDIES (HONOURS) DEGREE

### PART II END OF FIRST SEMESTER SUPPLIMENTARY EXAMINATIONS – MAY 2007 AAR 2102 – BUILDING CONSTRUCTION II

## Instructions

Duration: 4 Hours

Answer <u>all three(3)</u> questions. Question 1 is to be answered on <u>a single title blocked A1 sheet</u> 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

**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)

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# **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

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