

NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY

FACULTY OF THE BUILT ENVIRONMENT
DEPARTMENT OF QUANTITY SURVEYING
BACHELOR OF QUANTITY SURVEYING (HONOURS) DEGREE

PART I – SUPPLEMENTARY EXAMINATIONS – JULY 2008

BQS1110 – BUILDING CONSTRUCTION I

Instructions

Time : 3 Hours

- *Answer All questions*
- *Answer Each Question On A Fresh Page.*
- *Use Clearly Labeled Diagrams.*
- *Each Question Carries Equal Marks*

QUESTION 1

- a) Explain clearly the duties of the Architect and Quantity Surveyor in the stages of project development. (10)
- b) What is a site plan, and how does it help in the setting out of a building? [6]
- c) Working drawings are the drawings used for the actual execution of the works; Name five types of drawings found under this category and describe them. [5]
- c) Define the following
- Bearing capacity
 - Settlement
 - Dead load
 - Superimposed loads
- [4]

QUESTION 2

- a) State the main factors which determine the type of foundations of small buildings [5]
- b) Briefly explain with illustrations the difference between strip foundation and raft foundation. [10]
- c) What is a cavity wall. Show how you can prevent dampness with the use of cavity wall. State the advantages and disadvantages of the use of cavity walls. [10]

QUESTION 3

Write short notes with illustration on the following

- a) Distinguish between framed door and flush door (10)

- b) State 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)

QUESTION 4

Draw a vertical sectional detail of a two storey house that uses timber floors from foundation level to roof level. [25]