

NATIONAL UNIVERSITY OF SCIENCE TECHNOLOGY
FACULTY OF BUIT ENVIRONMENT
BACHELOR OF QUANTITY SURVEYING (HONOURS) DEGREE
PART I FIRST SEMESTER EXAMINATIONS- JANUARY 2013
AQS 1102 – DESCRIPTIVE GEOMETRY

TIME: 4 HOURS

TOTAL MARKS: 100

INSTRUCTIONS:

Answer all questions

Answer question 1 in the answer sheet provided .

Question 2 is to answered on A3 sheet provided .

Marks are awarded for neatly presented work.

Special equipment for use in section B

- Scale rule
- Rubber and drawing pencils
- Adjustable set squares
- A3 bond paper

QUESTION ONE

- a) Briefly explain the role of the Architect , Quantity Surveyor ,and Contractor in a building construction project and outline how drawings as means of communication are important to each one of them on a construction project. (10 marks)
- b) What are production drawings? (1 marks)
- c) Working drawings consist of plan, sections and elevations Discuss briefly information which is shown on each of these drawings.
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|------------|-----------|
| Plan | (4 marks) |
| Section | (4 marks) |
| Elevations | (3 marks) |
- d) Identify the two main categories of orthographic projection. (2 marks)
- e) Draw a sketch which illustrates any one type of the orthographic projections. (1 mark)

QUESTION 2

The attached sketches are not to scale and are proposals for Mr Dulo's house. You are required to:

- (a) Draw the FLOOR PLAN using appropriate dimensions, hatching and include relevant notes to a scale 1 : 100. (40 marks)
- (b) Draw section X- X with relevant notes , hatching ,line types and dimensions to a scale 1: 50 : **NOTE** Foundations are strip footings. (15 marks)
- (c) Draw the front elevation and any other elevation to a scale 1:100. (20 marks)

SPECIFICATIONS

WINDOW SIZES

ND6 305 x 1248

ND12F 2489 x 951

ND11F 2000 x 1248

NG4 1511 x 357

NE4 1511 x 654

DOOR SIZES

External doors 813 x 2032

Internal doors 762 x 2032

NB: All assumptions made in Section (a) to (c) should be clearly stated.

END OF EXAMINATION