NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY

FACULTY OF THE BUILT ENVIRONMENT

DEPARTMENT OF QUANTITY SURVEYING/CONSTRUCTION MANAGEMENT

MEASUREMENT I

BCS / BQS 1001

Main Examination Paper

October 2024

This examination paper consists of **two (2)** pages.

Time Allowed: 4 hours

Total Marks: 100

Special Requirements: SMM booklets, Take-off Paper, Abstract Paper & Bill Paper

Examiner's Name: Mr Matande J.

INSTRUCTIONS

1. Answer **Question One** and **any other two.**
2. Use of non-programmable calculators is permissible.

MARK ALLOCATION

QUESTION	MARKS
1.	**40**
2.	**30**
3.	**30**
4.	**30**
TOTAL	**100**

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Question One (Compulsory)

a) Using examples, explain the following:

i. Provisional sums [4]

ii. Prime cost sums [3]

iii. Why trap doors are measured as "**Extra Over**" [3]

b) Using the attached drawing in **Appendix 1**, take off the foundation works. [30]

Question Two

a) Using **Appendix 1**, take off "Doors and Ceiling" including adjustment for openings where necessary. [15]

b) Prepare an **abstract** and **bill** extract for the measured items in (a) [15]

Question Three

a) From **Appendix 1** attached, take off **brickwork** in superstructure and **wall finishes.** [20]

b) Prepare an **abstract** and **bill** extract for the measured items in (a) [10]

Question Four

a) Take off trussed **roof timbers**, **roof coverings,** and **rainwater goods** using the attached **Appendix 1** [21]

b) Calculate the number of Bricks and Brickforce required for a 30 x 40 x 3.1 m wall using the following information (allow 3.5% for waste).

i. 230 mm wall [3]

ii. 115 mm wall [3]

iii. 345mm wall [3]

END OF EXAMINATION

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