



NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY

FACULTY OF THE BUILT ENVIRONMENT

DEPARTMENT OF QUANTITY SURVEYING

CONSTRUCTION ESTIMATES AND PRICING

AQS 2205

Main Examination Paper

May 2015

This examination paper consists of 3 pages

Time Allowed: 3 hours

Total Marks: 100

Examiner's Name: Mr. T Moyo

INSTRUCTIONS

1. Answer ALL questions in **Section A** and any two in Section B

ADDITIONAL REQUIREMENTS

1. Guide to Elemental Cost Estimating and Analysis for Building Works 1998

MARK ALLOCATION

QUESTION	MARKS
1.	40
2.	20
3.	20
4	20
5	20

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AQS2205

SECTION A

QUESTION ONE

Prepare an extract of an Elemental Estimate, for the building on **Figure 1**, for the following primary elements; Foundations and Ground Floor Construction. Use reasonable rates in your computations

(40 marks)

QUESTION TWO

Build up the unit rates for the items in table below

<u>Item</u>	<u>Description</u>	<u>Unit</u>
1	One brick wall in commons built in stretcher bond and laid in 1:4 cement mortar	m ²
2	Grade 25MPA cast in-situ concrete in columns	m ³

Material prices

Common bricks- \$ 200.00/ 1000, Cement - \$ 12.00/ bag, Sand - \$ 20.00/m³, 19mm Concrete stone-\$55.00/ m³

Labour rates

Skilled worker- \$ 5.00/hour, Un-skilled worker- \$ 3.50/hour

Plant hire rates

Concrete mixer (output of 15m³/day) - \$100.00/ day, Poker Vibrator - \$ 30.00/day

All assumptions made should be clearly stated

(20 marks)

SECTION B

QUESTION THREE

(a) Explain the estimator's considerations in computations for general overheads and profit for a typical construction project (10 Marks)

(b) Discuss the sources of information for a cashflow forecast for a typical construction projects

(10 marks)

QUESTION FOUR

Describe, using examples, a typical approach to the pricing of Dayworks for labour, material and plant (20 Marks)

QUESTION FIVE

Your construction firm is invited to tender for a proposed NUST students residence construction project and you are tasked with managing the tendering and estimating for the project. Describe your estimating procedure till submission of the tender. (20 Marks)