



NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY

FACULTY OF THE BUILT ENVIRONMENT

DEPARTMENT OF QUANTITY SURVEYING

CONSTRUCTION ESTIMATES AND PRICING

AQS 2205

Supplementary Examination Paper

August 2016

This examination paper consists of 2 pages

Time Allowed: 3 hours

Total Marks: 100

Examiner's Name: Mr. T Moyo

INSTRUCTIONS

1. Answer ALL questions

ADDITIONAL REQUIREMENTS

1. Guide to Elemental Cost Estimating and Analysis for Building Works 2013

MARK ALLOCATION

QUESTION	MARKS
1.	30
2.	20
3.	25
4	25

QUESTION ONE

Prepare an Elemental Estimate, for the building in Figure 1, for the following primary elements; Foundations, Ground Floor Construction and External Envelope. Use reasonable rates in your computations (30 marks)

QUESTION TWO

Build up the unit rates for the items 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 (25 marks)

QUESTION THREE

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

QUESTION FOUR

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. (25 Marks)