



NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY

FACULTY OF THE BUILT ENVIRONMENT

DEPARTMENT OF QUANTITY SURVEYING

COMPUTER APPLICATIONS IN QUANTITY SURVEYING

AQS2207

Supplementary Examination Paper

July 2015

Time Allowed: 4 hours

Total Marks: 100

Examiner's Name: Ms R Mapungwana

INSTRUCTIONS

1. Answer **ALL** Questions

MARK ALLOCATION

| QUESTION | MARKS |
|-----------------|--------------|
| 1. | 25 |
| 2. | 75 |

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Question One

You are employed by M and N Construction Ltd as the Projects Quantity Surveyor. You have been tasked to prepare the programme of works for the construction of one single storey building. The construction work is scheduled to begin on the 1st of May 2015.

| | |
|---------------------------------------|---------------|
| 1. Mobilisation | 2weeks |
| 2. Excavation | 3weeks |
| 3. Pile cap/Grind Beams | 5weeks |
| <i>i. Cut-off piles &Blinding</i> | <i>1weeks</i> |
| <i>ii. Formwork and rebar</i> | <i>2weeks</i> |
| <i>iii. Concrete</i> | <i>2weeks</i> |
| 4. Drainage | 5weeks |
| <i>i. Road Crossing</i> | <i>1week</i> |
| <i>ii. FW& SW Drainage</i> | <i>4weeks</i> |
| 5. Piling | 2weeks |
| 6. Roofing | 3weeks |
| 7. Structural Steel | 5weeks |
| <i>i. Erect Steel Frame</i> | <i>3weeks</i> |
| <i>ii. Holorib Frames</i> | <i>2weeks</i> |
| 8. Brickwork | 5weeks |
| <i>i. External Brickwork</i> | <i>3weeks</i> |
| <i>ii. Internal Blockwork</i> | <i>2weeks</i> |
| 9. Cladding | 3weeks |
| 10. M & E Services | 9weeks |
| <i>i. Plumbing</i> | <i>5weeks</i> |
| <i>ii. Electrics</i> | <i>4weeks</i> |
| 11. External Works | 6weeks |
| <i>i. Roads and Pavings</i> | <i>4weeks</i> |
| <i>ii. Landscaping</i> | <i>2weeks</i> |
| 12. Clear Site and Handover | 2weeks |
| 13. Floor Slab | 6weeks |
| <i>i. Sub- Base blinding</i> | <i>2weeks</i> |
| <i>ii. Formwork and Concrete</i> | <i>4weeks</i> |
| 14. Finishes | 5weeks |
| <i>i. Joinery</i> | <i>2weeks</i> |
| <i>ii. Plastering</i> | <i>2weeks</i> |
| <i>iii. Decorations</i> | <i>1week</i> |

(25marks)

Question Two

Using attached Drawing 2015/01; prepare part of the measured work section of the Bills of Quantities using WinQS for the following:

- a. Foundations
- b. Joinery and ironmongery
- c. Paving and Floor Coverings

(75 marks)