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higher education & training

Department:
Higher Education and Training
REPUBLIC OF SOUTH AFRICA

NATIONAL CERTIFICATE QUANTITY SURVEYING N4

(2050004)

**20 April 2020 (X-paper)
09:00–13:00**

REQUIREMENTS: Dimension paper (OE 8/12)
Abstract paper (OE 8/10)
Billing paper (OE 8/11)

**Candidates are not allowed to use the Standard System
of Measuring Building Work.**

Calculators may be used.

This question paper consists of 6 pages and 1 addendum.

313Q1A2020

DEPARTMENT OF HIGHER EDUCATION AND TRAINING
REPUBLIC OF SOUTH AFRICA
NATIONAL CERTIFICATE
QUANTITY SURVEYING N4
TIME: 4 HOURS
MARKS: 100


INSTRUCTIONS AND INFORMATION

1. Answer all the questions.
 2. Read all the questions carefully.
 3. Number the answers according to the numbering system used in this question paper.
 4. Section A must be done on the prescribed sheets provided.
 5. Section B must be done in the answer book.
 6. Use only a black or blue pen.
 7. The use of Tipp-Ex is not allowed.
 8. Write neatly and legibly.
-



SECTION A**QUESTION 1**

The ADDENDUM (attached) shows the foundation plan view and a vertical sectional view through the foundation wall of a holiday hut.

SPECIFICATIONS


- Earthworks: Clear site 2 metres all round beyond the foundation walls.
Excavated materials to be used for filling.
- Masonry: Stock bricks in 1:3 cement mortar. 
External facings to two courses below the ground level.
- Concrete: 15 MPa
- Waterproofer: Plastic damp-proof sheeting under concrete surface bed.
Damp-proof course membrane in brick walls.

Do the taking off of all the work to be carried out to the top of the concrete surface bed. Measure strictly according to the instructions as indicated below.

- | | | | |
|-----|-------|--|-----|
| 1.1 | 1.1.1 | Calculate the dimensions of the area to be cleared. | (2) |
| | 1.1.2 | Take off the site clearance. | (1) |
| 1.2 | 1.2.1 | Calculate the centre line of the foundation footing. | (1) |
| | 1.2.2 | Take off the items for the foundation trenches and the material available for filling.  | (7) |
| | 1.2.3 | Take off the risk of collapse. | (2) |
| | 1.2.4 | Take off the concrete footing. | (1) |
| | 1.2.5 | Take off the foundation brick wall. | (2) |
| | 1.2.6 | Take off the backfilling. | (3) |
| 1.3 | 1.3.1 | Calculate the external perimeter. | (1) |
| | 1.3.2 | Take off the external facings. | (2) |
| 1.4 | | Take off the hard-core filling. | (1) |
| 1.5 | | Take off the damp-proof sheeting. | (1) |
| 1.6 | | Take off the concrete surface bed.  | (3) |
| 1.7 | | Take off the damp-proof membrane in the brick walls. | (3) |

[30]

QUESTION 2

- 2.1 Square only the earthwork items. (2½)
- 2.2 Abstract all the earthwork items.  (3½)
- 2.3 Do the billing of all the earthwork items. (4)

[10]

TOTAL SECTION A: 40

SECTION B

QUESTION 3

3.1 Write the following abbreviations out in full:

3.1.1 i.p.

3.1.2 c.s.

3.1.3 r.o.c.

3.1.4 a.u. 

3.1.5 fcg.

(5 × 1) (5)

3.2 State the unit of measurement of the following trade items:

3.2.1 Backfilling

3.2.2 Brickwork

3.2.3 Roofing sheets


3.2.4 Purlins 

3.2.5 Damp-proof membrane

(5 × 1) (5)

[10]

QUESTION 4

- 4.1 State FIVE reasons why it is compulsory for all builders' work to be measured strictly according to the Standard System of Measuring Building Work South Africa.  (5)
- 4.2 State FIVE advantages of a bill of quantities. (5)
- [10]**

QUESTION 5

Briefly explain the following terms used in the quantity surveying profession:

- 5.1 Measuring list
- 5.2 Query list
- 5.3 Sign-posting
- 5.4 Side casts
- 5.5 Reducing (5 × 2) **[10]**
- 


QUESTION 6


State the duties a professional quantity surveyor would perform during the following contract periods:

- 6.1 Prior to construction (4)
- 6.2 During construction (5)
- 6.3 Postconstruction  (1)
- [10]**

QUESTION 7


Indicate whether the following statements are TRUE or FALSE by writing only 'True' or 'False' next to the question number (7.1–7.10) in the ANSWER BOOK.

- 7.1 Hard core is measured in metres.
- 7.2 The architect makes monthly payments to the contractor. 
- 7.3 Preliminaries are items that cannot be allocated to a certain trade.

- 7.4 Beam filling is brickwork built between and over the ends of trusses.
- 7.5 The main contractor is responsible to do subcontractor payments.
- 7.6 Preambles are specification notes for each trade in the bills of quantities.
- 7.7 Formwork is measured in metres. 
- 7.8 Tender drawings are issued with the tender bills of quantities.
- 7.9 Tenderers may use any envelope when submitting tender prices.
- 7.10 Final accounts are part of a professional quantity surveyor's duties. (10 × 1) [10]

QUESTION 8

Briefly explain what is meant by:

- 8.1 Prime cost amounts
- 8.2 Provisional sums  (2 × 5) [10]

TOTAL SECTION B: 60
GRAND TOTAL: 100

(2050004)

ADDENDUM

