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higher education & training

Department:
Higher Education and Training
REPUBLIC OF SOUTH AFRICA

T1210**(E)**(N24)T

NOVEMBER EXAMINATION

NATIONAL CERTIFICATE

QUANTITY SURVEYING N5

(2050015)

24 November 2016 (X-Paper)
09:00–13:00

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

Candidates will require their own unmarked copies of the STANDARD SYSTEM OF MEASURING BUILDING WORK.

Calculators may be used.

This question paper consists of 5 pages and 1 addendum.

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DEPARTMENT OF HIGHER EDUCATION AND TRAINING
REPUBLIC OF SOUTH AFRICA

NATIONAL CERTIFICATE
QUANTITY SURVEYING N5
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. Red ink is not allowed.
5. ALL the work in SECTION A must be done on the appropriate paper.
6. ALL the work in SECTION B must be done in the ANSWER BOOK.
7. Write neatly and legibly.

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SECTION A

ADDENDUM A shows the plan and sectional views of a reinforced concrete structure.

SPECIFICATIONS:

EARTHWORKS: Site clearance to be done 2 000 mm all around the columns. Excavations are in ordinary ground and all surplus material to be carted away.
Filling at the bases to be filled in and rammed.
Allow for working space for the placement and removal of the formwork in the bases.

CONCRETE: 30 MPa in bases.
25 MPa in columns, beams and slab.

FORMWORK: Formwork is required to cast the concrete in the column bases.

Refer to ADDENDUM A and carefully study the plan and sectional views of the reinforced concrete structure. Please ensure that the drawings are read with reference to the specifications given above.

QUESTION 1

Measure only the earthwork items as stated in the measuring list below:

- Site clearance
- Excavations
- Working space
- Water
- Excavated soil available for filling **[20]**

QUESTION 2

Measure only the concrete and formwork items as stated in the measuring list below:

- Concrete in bases
- Formwork in bases
- Concrete in columns
- Formwork to columns
- Concrete in beams and slab
- Formwork to soffit beams and slab only **[20]**

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QUESTION 3

Draw up a tendering document for the EARTHWORK trade only. Show all the steps when doing the following:

3.1 Squaring

3.2 Abstracting

3.3 Billing

[20]

TOTAL SECTION A: 60

SECTION B

QUESTION 4

4.1 Draft the valuation for the THIRD interim payment certificate for the project.

The value for the SECOND month amounted to R250 120 after 10% for retention had been deducted.

The THIRD valuation has the following values:

Preliminaries	R 28 890
Earthworks	R 110 400
Concrete, formwork and reinforcement	R 91 250
Masonry	R 62 000
Waterproofing	R 10 150
Materials on site	R 4 500

(7)

4.2 Briefly describe why retention monies are withheld from a contractor. (3)

[10]

QUESTION 5

Explain what is understood by the following quantity surveying terms:

5.1 Interim valuations

5.2 Interim payment certificate

5.3 Purpose made

5.4 Ditto

5.5 Practical completion

(5 × 2) **[10]**

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QUESTION 6

6.1 State any FIVE duties of a professional quantity surveyor. (5)

6.2 State any FIVE duties of an architect. (5)
[10]

QUESTION 7

State TWO activities to be done in each of the following stages of preparing a bill of quantities:

7.1 Taking off

7.2 Squaring

7.3 Abstracting

7.4 Reducing

7.5 Billing

(5 × 2) **[10]**

TOTAL SECTION B: 40
GRAND TOTAL: 100

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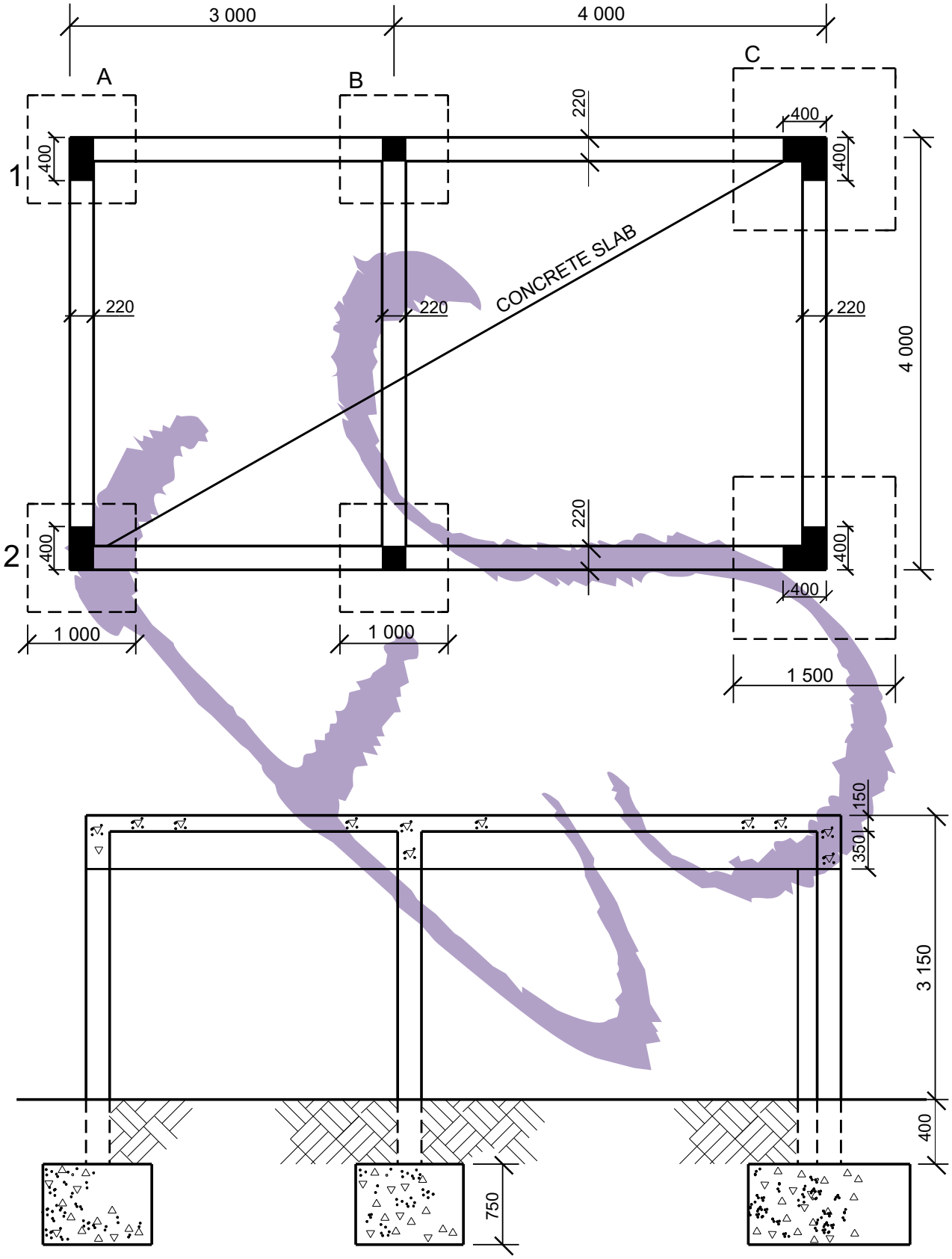
ADDENDUM A



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