



higher education & training

Department:
Higher Education and Training
REPUBLIC OF SOUTH AFRICA

T1200(E)(N30)T
NOVEMBER EXAMINATION
NATIONAL CERTIFICATE
QUANTITY SURVEYING N4

(2050004)

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

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

NOTE: The Manual: *Standard System of Measuring Builders Work* must NOT be brought into the examination room.

Nonprogrammable calculators may be used.

This question paper consists of 6 pages and 1 diagram sheet.

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

INSTRUCTIONS AND INFORMATION

1. Answer ALL the questions.
 2. SECTION A must be answered on the dimension, abstract and billing papers.
 3. SECTION B must be answered in the ANSWER BOOK.
 4. Read ALL the questions carefully.
 5. The work must be answered according to the STANDARD SYSTEM of MEASURING BUILDERS WORK.
 6. Do not use red or green pens.
 7. Do not staple loose pages.
 8. Number the answers according to the numbering system used in this question paper.
 9. In QUESTION 1 the word NIL must be used on the dimension paper.
 10. Write neatly and legibly.
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SECTION A

QUESTION 1

SPECIFICATIONS:

- 50 × 76 mm purlins
- 76 × 76 mm eaves purlin
- Galvanised iron-roof covering
- Galvanised sheet-iron ridge piece
- 38 × 220 mm fascia and barge boards
- 100 × 75 mm galvanised sheet-iron eaves gutter
- 100 × 75 mm galvanised sheet-iron downpipe
- Precast rain-water channel
- Primer and 2 coats enamel on galvanised sheet-iron gutter.

Refer to the attached DIAGRAM SHEET and measure the following:

- 1.1 Take off the corrugated galvanised sheet iron-roof covering. (14)
- 1.2 Take off the rain-water goods. (14)
- 1.3 Square, abstract and bill only the galvanised iron-roof parts. (12)

TOTAL SECTION A: [40] 40

SECTION B**QUESTION 2**

2.1 Write out in full the following abbreviations used in the taking-off:

2.1.1 Excav

2.1.2 r.o.c

2.1.3 c.m

2.1.4 g.l

2.1.5 n.e

2.1.6 c.s

2.1.7 s.b

2.1.8 e.o.b

2.1.9 fcgs

2.1.10 exc.

2.2 Give the principles in the Standard System of Measuring Building Work on how the site clearance should be measured.

(10 × 1) (10)

(10)
[20]

QUESTION 3

3.1 State the unit of measurement of the following:

3.1.1 Removal of doors, windows, fittings

3.1.2 Removal of finishes from walls

3.1.3 Cutting or altering openings in structures

3.1.4 Re-use of existing components such as brick etc.

3.1.5 Cutting through floors or ceilings for the passage of new walls

- 3.1.6 Demolition and removal of buildings and other structures
- 3.1.7 Filling of soil, stone, broken brick, etc. under floors, steps, paving, etc.
- 3.1.8 Treating surfaces with weedkillers, insecticides, etc.
- 3.1.9 Treatment of the finished face of concrete other than striking off and curing
- 3.1.10 Plastic sheeting under surface bed (10 x 1) (10)

3.2 Indicate whether the following statements are TRUE or FALSE. Choose the answer and write only 'true' or 'false' next to the question number (3.2.1—3.2.10) in the ANSWER BOOK.

- 3.2.1 Treatment of the finished face of concrete other than striking off and curing shall be given in square metres.
- 3.2.2 Plastic sheeting under surface beds shall be given in square metres and shall include turn-ups and turndowns.
- 3.2.3 Unless otherwise stated, formwork shall be measured to net surfaces of concrete to be supported and descriptions shall be deemed to include intersections, holes, propping, maintaining and removing.
- 3.2.4 Formwork shall be given in square metres unless otherwise stated. No deductions shall be made for openings not exceeding 3 m² nor for intersections.
- 3.2.5 Masonry work shall be classified according to the material and quality of the masonry unit, the bonding and the composition of the mortar.

- 3.2.6 Face brickwork shall be given in square metres as extra over brickwork.
- 3.2.7 Paving of bricks, concrete blocks, cement tiles, quarry tiles, etc. shall be given in square metres stating the pattern.
- 3.2.8 Fireplaces shall be given in number.
- 3.2.9 Fascia and barge boards shall be given in metres and descriptions shall be deemed to include mitres etc.
- 3.2.10 Structural timber (other than roof trusses etc.) shall be given in metres and descriptions shall be deemed to include protective surface treatment.

(10 × 1) (10)
[20]

QUESTION 4

4.1 Define and describe the following sections which make up the bill of quantities:

- 4.1.1 Preliminary and general items
- 4.1.2 Preambles
- 4.1.3 Builders work
- 4.1.4 Main summary
- 4.1.5 Form of tender

(5 × 2) (10)

4.2 The architect is the first design team member to work on the project. Explain what his/her main functions are.

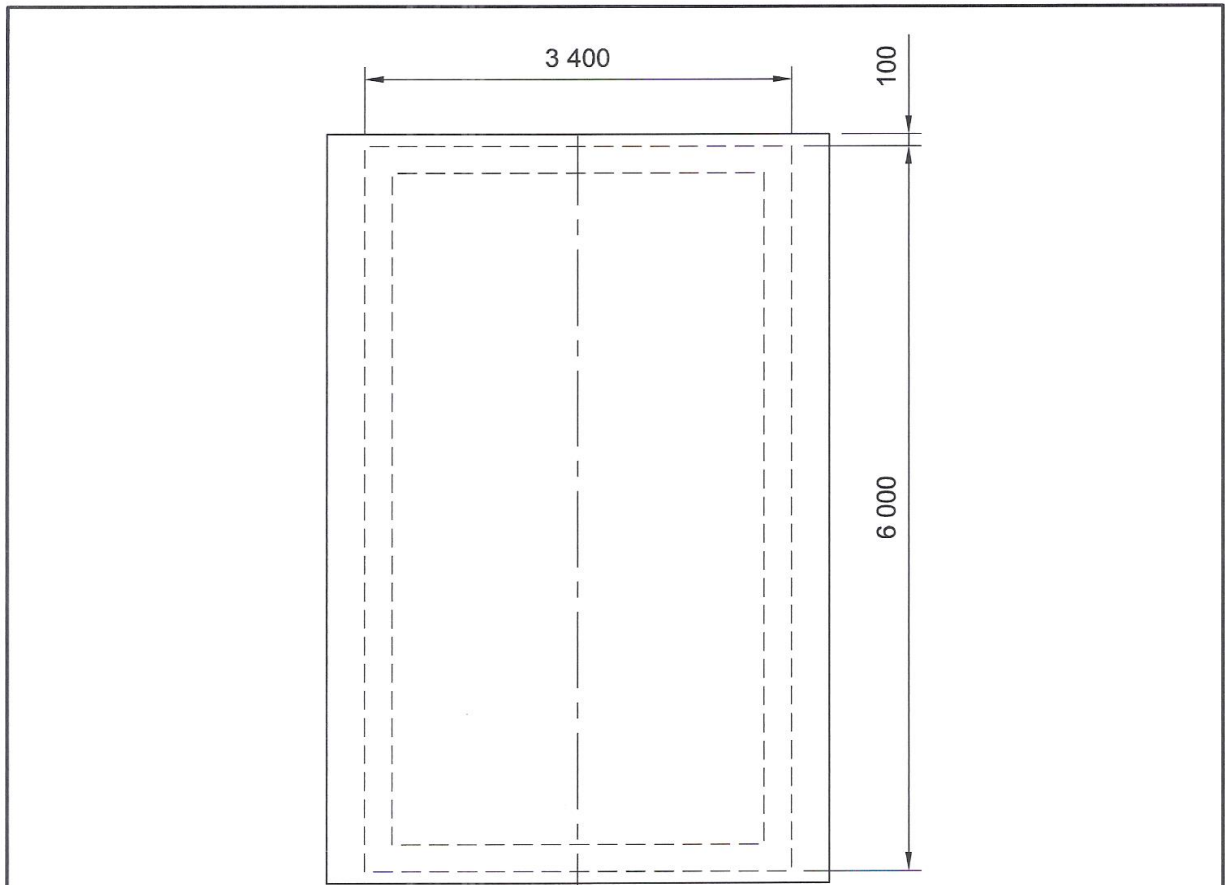
(10)

[20]

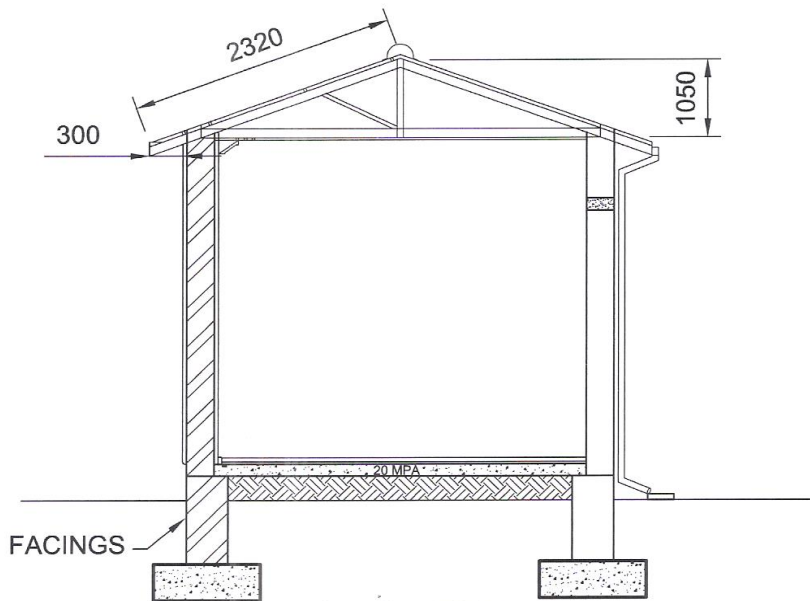
TOTAL SECTION B: 60

GRAND TOTAL: 100

DIAGRAM SHEET



ROOF PLAN



SECTION

N.T.S