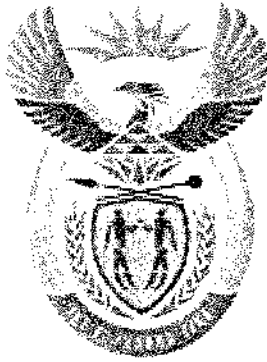


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higher education & training

Department:
Higher Education and Training
REPUBLIC OF SOUTH AFRICA

T30(E)(N12)T
NOVEMBER EXAMINATION

NATIONAL CERTIFICATE

BRICKLAYING AND PLASTERING THEORY N2

(11010102)

12 November 2014 (Y-Paper)
13:00–16:00

This question paper consists of 5 pages and 1 addendum.

**DEPARTMENT OF HIGHER EDUCATION AND TRAINING
REPUBLIC OF SOUTH AFRICA
NATIONAL CERTIFICATE
BRICKLAYING AND PLASTERING N2
TIME: 3 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. ADDENDUM 1 to be handed in together with your script.
 5. Write neatly and legibly.
-

QUESTION 1

- 1.1 Explain, step by step, how metal laths are plastered. (8)
- 1.2 State FOUR main advantages of wood-wool slabs. (4 × 2) (8)
- [16]**

QUESTION 2

Draw, to an approximate scale 1 : 10, the alternate plan course of a two-brick right angle corner in Flemish bond. Show a stopped end on one wall. **[20]**

QUESTION 3

- 3.1 Briefly explain the term *terrazzo*. (5)
- 3.2 Name FOUR different materials that can be used as coping on walls. (4)
- 3.3 Name SEVEN tools used for tiling a small wall panel. (7)
- [16]**

QUESTION 4

- 4.1 Define the term *calcium silicate bricks*. (3)
- 4.2 State FOUR factors that may cause a chimney to smoke. (4)
- 4.3 Choose a description from COLUMN B that matches a word/an item in COLUMN A. Write only the letter (A–G) next to the question number (4.3.1–4.3.6) in the ANSWER BOOK.

COLUMN A		COLUMN B	
4.3.1	Throat	A	the slope given to a horizontal surface to create a run off of water
4.3.2	Parget	B	the architectural dressings around a fireplace
4.3.3	Weathering	C	to incline from the perpendicular, to taper
4.3.4	Chimney piece	D	the partition between two flues in the same stack
4.3.5	Flaunching	E	to render the inside of a flue with lime and mortar cement
4.3.6	Batter	F	the part of a fireplace between the gathering and the flue
		G	cement mortar filler around the top of a chimney stack

(6 × 1)

(6)
[13]**QUESTION 5**

Draw, to an approximate scale 1 : 10, a vertical section through the bottom 11 courses of a one-brick wall. The drawing must show the following details:

Concrete foundation: 600 mm × 300 mm

Ground level three courses above the foundation

Damp course

Floor slab: 75 mm

The top of the floor slab to be seven courses above the foundation

Hard core: 75 mm

Topping: 20 mm

Floor blocks: 20 mm

Plaster internally: 15 mm

Wooden skirting: 75 mm × 13 mm

Hatching to foundation, plaster, floor slab and hardcore

[20]

QUESTION 6

The ADDENDUM (attached) shows a 2 400 mm high column. The base of the column has a diameter of 400 mm and the top of the column has a diameter of 300 mm.

Draw the complete entasis of the column on the ADDENDUM (attached) by means of the constant distances method.

[10]

QUESTION 7

State FIVE basic rules that apply when a scaffold is erected.

[5]

TOTAL: 100

ENGINEERING

ADDENDUM

EXAMINATION NUMBER:

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