higher education & training

Department:
Higher Education and Training
REPUBLIC OF SOUTH AFRICA

T70**(E)**(A5)T

NATIONAL CERTIFICATE

BRICKLAYING AND PLASTERING THEORY N1

(11010091)

5 April 2018 (X-Paper)
09:00–12:00

This question paper consists of 5 pages.

ESP

Copyright reserved

DEPARTMENT OF HIGHER EDUCATION AND TRAINING
REPUBLIC OF SOUTH AFRICA

NATIONAL CERTIFICATE
BRICKLAYING AND PLASTERING THEORY N1
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. Write neatly and legibly.

ES

Copyright reserved

QUESTION 1

1.1 Choose a term from COLUMN B that matches a description in COLUMN A. Write only the letter (A–J) next to the question number (1.1.1–1.1.10) in the ANSWER BOOK.

COLUMN A		COLUMN B	
1.1.1	Perpendicular joints	A	cavity wall
1.1.2	Process of finishing off brickwork by means of jointers	B	damp-proof course
1.1.3	Mixture of stone, sand, cement and water	C	straight edge
1.1.4	Steps left in unfinished brickwork	D	no-fines concrete
1.1.5	Horizontal joints	E	block brush
1.1.6	Black plastic used to prevent moisture from entering the wall	F	jointing
1.1.7	Used to level off concrete and plaster	G	concrete
1.1.8	Made with stone, cement and water	H	perpends
1.1.9	Wetting down the walls before plastering	I	racking back
1.1.10	Wall consisting of two separate walls with an opening between them	J	bed joints

(10 × 1) (10)

1.2 Name SIX tools that can be used for setting out. (6)

1.3 Give the uses of each of the following tools:

1.3.1 Comb hammer

1.3.2 Wooden float

(2 × 2) (4)

[20]

Copyright reserved

QUESTION 2

2.1 Explain each of the following terms:

2.1.1 Plastering

2.1.2 Rendering

(2 × 3) (6)

2.2 List THREE materials used in plaster. (3)

2.3 Name FIVE types of rendering defects. (5)

2.4 Name THREE types of plaster. (3)

2.5 Define the term *concrete.* (3)

[20]

QUESTION 3

3.1 Draw the front elevation of a wall, FIVE bricks long and FIVE courses high, to illustrate each of the following bonds:

3.1.1 Stretcher bond

3.1.2 English bond

3.1.3 Flemish bond

(3 × 4) (12)

3.2 Name FOUR places where control joints should be located. (4)

3.3 Name THREE common methods that can be used to join new brickwork to existing brickwork. (3)

3.4 Simon cut a brick that is 220 mm in length, 75 mm in height and 55 mm in width to be used in a wall.

Name the type of brick Simon cut. (1)

[20]

Copyright reserved

QUESTION 4

4.1 Name FIVE types of jointing. (5)

4.2 Differentiate between *racking back* and *toothing*. (2 + 2) (4)

4.3 Define each of the following terms:

4.3.1 Natural building stone (3)

4.3.2 Block bonding (3)

4.3.3 Grading of sand (3)

4.3.4 Precast concrete (2)

[20]

QUESTION 5

Draw, to an approximate scale of 1 : 10, the alternate plan course of a one-brick T-junction in Flemish bond. **[20]**

TOTAL: 100

Copyright reserved