higher education & training

Department:
Higher Education and Training
REPUBLIC OF SOUTH AFRICA

BRICKLAYING AND PLASTERING THEORY N2

(11010102)

9 April 2020 (X-paper)
09:00–12:00

This question paper consists of 5 pages.

183Q1A2009

Copyright reserved

DEPARTMENT OF HIGHER EDUCATION AND TRAINING
REPUBLIC OF SOUTH AFRICA

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

Copyright reserved

QUESTION 1

1.1 Various options are given as possible answers to the following questions. Choose the answer and write only the letter (A–D) next to the question number (1.1.1–1.1.6) in the ANSWER BOOK.

1.1.1 A rectangular column is known as …

A cheeks.
B a collar.
C a pilaster.
D plaster.

1.1.2 The slight outward curve in the shaft of a column is called the …

A buttress.
B entasis.
C reverse shaft.
D screed.

1.1.3 The … is the sloping area around the bottom of a shaft or chimney made of concrete, stone, brick or steel.

A rendering
B column
C floor slab
D flaunching

1.1.4 A … is the load-bearing brickwork between openings.

A pier
B shaft
C batter
D wall tie

1.1.5 A column consists of the THREE parts …

A concrete, stone and steel.
B base, shaft and cap.
C pier, pilaster and entasis.
D aggregate, sand and cement.

1.1.6 Columns are often joined by a/an …

A outward groove.
B crown.
C damp-proof course.
D epistyle.

(6 × 1) (6)

Copyright reserved

1.2 Briefly describe how boards should be handled during off-loading. (6)

1.3 Name THREE categories in which fireplaces are grouped. (3)

1.4 State FIVE properties of firebricks. (5)
[20]

QUESTION 2

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

QUESTION 3

3.1 State SEVEN safety points to be considered when using a stepladder. (7)

3.2 The boards for cladding dry walling can either be fixed vertically or horizontally.

Briefly explain how plaster boards are manufactured. (9)

3.3 State FOUR main different types of fireplaces. (4)
[20]

QUESTION 4

4.1 State FIVE factors that should be considered when selecting a concrete floor finish. (5)

4.2 Name TWO types of scaffolding used in the construction world. (2)

4.3 Name EIGHT components that can be used to erect independent scaffolding. (8)
[15]

QUESTION 5

5.1 Name the TWO groups in which tile adhesives can be obtained. (2)

5.2 Name SIX tools used for floor tiling. (6)

5.3 Name FOUR different types of wall ties that are used in the building construction industry. (4)

5.4 Name FOUR different patterns to lay paving bricks on the ground. (3)
[15]

Copyright reserved

QUESTION 6

6.1 Name SIX situations where expanded metal mesh can be used. (6)

6.2 Indicate whether the following statements are TRUE or FALSE. Choose the answer and write only 'True' or 'False' next to the question number (6.2.1–6.2.4) in the ANSWER BOOK.

6.2.1 Where solid timber floors are laid, special attention should not be given to proper ventilation underneath the floor area.

6.2.2 The ant guards prevent termite infestations which would damage and eventually destroy the floor timbers.

6.2.3 Where suspended timber floors are built, the soil under the floor should be chemically treated to prevent termite infestation.

6.2.4 The two methods of supporting the floor between the walls are sleeper walls and piers.

(4 × 1) (4)
[10]

TOTAL: 100

Copyright reserved