higher education & training

Department:
Higher Education and Training
REPUBLIC OF SOUTH AFRICA

NATIONAL CERTIFICATE

BRICKLAYING AND PLASTERING THEORY N2

(11010102)

24 November 2022 (X-Paper)
09:00–12:00

Drawing instruments may be used.

This question paper consists of 5 pages.

187Q1E2224

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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. Start each section on a new page.
5. Use only a black or a blue pen.
6. Write neatly and legibly.

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QUESTION 1

1.1 Briefly explain what will happen to an area that is poorly paved. (3)

1.2 Tiling forms part of the finishes in construction projects.

1.2.1 List any TWO materials that will be required to do tiling. (2)

1.2.2 List any FOUR tools that will be used to do tiling. (4)

1.3 Explain the term c*avity wall construction.* (2)

1.4 State the guidelines given for caring of terrazzo after it has been laid. (5)

1.5 List FOUR external factors that cause a chimney to smoke. (4)

1.6 Explain the term p*utlog scaffolding.* (2)

[22]

QUESTION 2

2.1 Indicate whether the following statements are TRUE or FALSE by writing only 'True' or 'False' next to the question number (2.1.1–2.1.6) in the ANSWER BOOK.

2.1.1 The extrados is the upper edge of an arch as seen from the front.

2.1.2 The span is the underside edge of an arch.

2.1.3 A ring is a row of bricks in the arch.

2.1.4 Voussoirs are rows of bricks in the arch.

2.1.5 The intrados is the underside of an arch when seen in elevation.

2.1.6 V-joints are the joints in a flat arch.

(6 × 1) (6)

2.2 State SIX precautionary measures when cutting firebricks. (6)

2.3 State the requirements for a running mould. (5)

2.4 List FOUR advantages of a cavity wall compared to a solid wall. (4)

[21]

QUESTION 3

3.1 Draw, to an approximate scale of 1:10, either the first course or the second course of an alternate plan course of a corner in a 270 mm cavity-wall contraction in stretcher bond. (8)

3.2 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 (3.2.1 – 3.2.6) in the ANSWER BOOK.

3.2.1 The first point to consider when required to use a step ladder is to …

A get someone to help you.
B climb safely.
C select the proper ladder.
D choose the lightest ladder.

3.2.2 Extension ladders ...

A can be extended to required height.
B are portable ladders.
C are made up of two sections that allow sliding.
D All of the above.

3.2.3 The maximum height of chimney stack should not exceed … its least horizontal distance.

A 4 and a half times
B 6 and a half times
C 8 and a half times
D 2 and a half times

3.2.4 A type of arch that is formed with uncut bricks and wedge-shaped mortar joints is called a/an …

A axed arch.
B gauge arch.
C flat arch.
D rough arch.

3.2.5 A type of shore that consists of a horizontal shore set between the two walls and are used for distances between walls of up to 9 m:

A Single flying shore
B Raking shore
C Inclined shore
D Vertical shore

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3.2.6 A classical column consists of … parts.

A 1
B 2
C 3
D 4

(6 × 1) (6)
[14]

QUESTION 4

4.1 State any FIVE methods in shoring that can be implemented to reduce the problems of collapsed buildings. (5)

4.2 Explain the correct climbing procedure when ascending or descending a ladder. (5)

4.3 Explain the following terminologies:

4.3.1 Pilaster

4.3.2 Column

4.3.3 Entasis

(3 × 2) (6)

4.4 List FIVE different types of interior metal lathing. (5)
[21]

QUESTION 5

5.1 Name two common types of materials that are used as pavers. (2)

5.2 List FIVE properties of plastic roof sheeting. (5)

5.3 List SIX purposes of brick bonding. (6)
[13]

QUESTION 6

6.1 List NINE steps that are important in determining the timeframe for the creation of a bar chart. (9)
[9]

TOTAL: 100

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