higher education & training

Department:
Higher Education and Training
REPUBLIC OF SOUTH AFRICA

NATIONAL CERTIFICATE

BRICKLAYING AND PLASTERING THEORY N1

(11010091)

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09:00–12:00

This question paper consists of 4 pages.

120Q1A2007

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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.

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QUESTION 1

1.1 Indicate whether the following statements are TRUE or FALSE by writing only 'True' or 'False' next to the question number (1.1.1–1.1.10) in the ANSWER BOOK.

1.1.1 Straight edges are used to level off concrete and plaster.

1.1.2 Steel squares are used for squaring corners.

1.1.3 Club hammers are used with brick bolsters to cut tiles.

1.1.4 Cold chisels are used for cutting concrete and brickwork.

1.1.5 Long jointers are used to strike perpendicular joints.

1.1.6 Hand hawks are used to carry concrete.

1.1.7 Block brushes are used for wetting down walls before plastering.

1.1.8 Wooden floats are used to float plaster.

1.1.9 Gauging trowels are used for gauging and mixing small quantities.

1.1.10 Short jointers are used to strike bed joints.

(10 × 1) (10)

1.2 Name FIVE tools that can be used for bricklaying. (5)

1.3 Explain the main purpose of using a gauge rod. (3)

1.4 Name the function of a pointing trowel. (2)

[20]

QUESTION 2

2.1 Define each of the following with regard to bricklaying:

2.1.1 Concrete

2.1.2 Curing of concrete

2.1.3 No-fines concrete

2.1.4 Compaction

2.1.5 Light-weight concrete

(5 × 2) (10)

2.2 Name FIVE methods that can be used to cure concrete. (5)

2.3 Name FIVE different classes of firebricks. (5)

[20]

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QUESTION 3

Draw, approximately to scale 1:10, an alternate plan course of a one-and-a-half brick cross-junction in English bond. **[20]**

QUESTION 4

4.1 Name FIVE different types of jointing that can be used to finish off face brick. (5)

4.2 Name TWO methods that can be used when joining a new wall to an existing wall. (2)

4.3 Name the equipment used to form a concrete test cube. (8)

4.4 Name FIVE different patterns of bricklaying. (5)
[20]

QUESTION 5

5.1 Explain *admixtures*. (3)

5.2 Name FIVE places where no-fines concrete can be used. (5)

5.3 Name the difference between *bonded wall* and *unbounded wall*. (2 × 2) (4)

5.4 Explain the purpose of control joints. (2)

5.5 Damp-proof material is water-resistant.

Name SIX different materials that can be used as damp-proof. (6)
[20]

TOTAL: 100

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