higher education & training

Department:
Higher Education and Training
REPUBLIC OF SOUTH AFRICA

MARKING GUIDELINE

NATIONAL CERTIFICATE

BRICKLAYING AND PLASTERING THEORY N1

7 April 2020

This marking guideline consists of 5 pages.

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QUESTION 1

1.1
1.1.1 True
1.1.2 True
1.1.3 False
1.1.4 True
1.1.5 False
1.1.6 False
1.1.7 True
1.1.8 True
1.1.9 True
1.1.10 False

(10 × 1) (10)

1.2
- Brick trowel
- Spirit level
- Builder's line
- Steel pins
- Gauge rod
- Corner blocks
- Tingle

(Any 5 × 1) (5)

1.3 To ensure that all the corners✓ of a building are of equal height✓ upon completion✓ (3)

1.4 Used with jointing tools to finish off face brick (2)
[20]

QUESTION 2

2.1 2.1.1
- Mixture of sand, stone, cement and water
- Mixture of cement, coarse aggregate, fine aggregate and water

(Any ONE)

2.1.2
- Keeping cast concrete wet for 28 days
- Term used for keeping freshly placed concrete from drying out too quickly

2.1.3
- Concrete made of stone, cement and water without sand
- Concrete made without fine aggregate

2.1.4
- Removing trapped air bubbles from freshly placed concrete
- Process to expel entrapped air as far as possible from concrete

2.1.5
- Made from material other than stone and sand
- Made from material other than coarse and fine aggregate

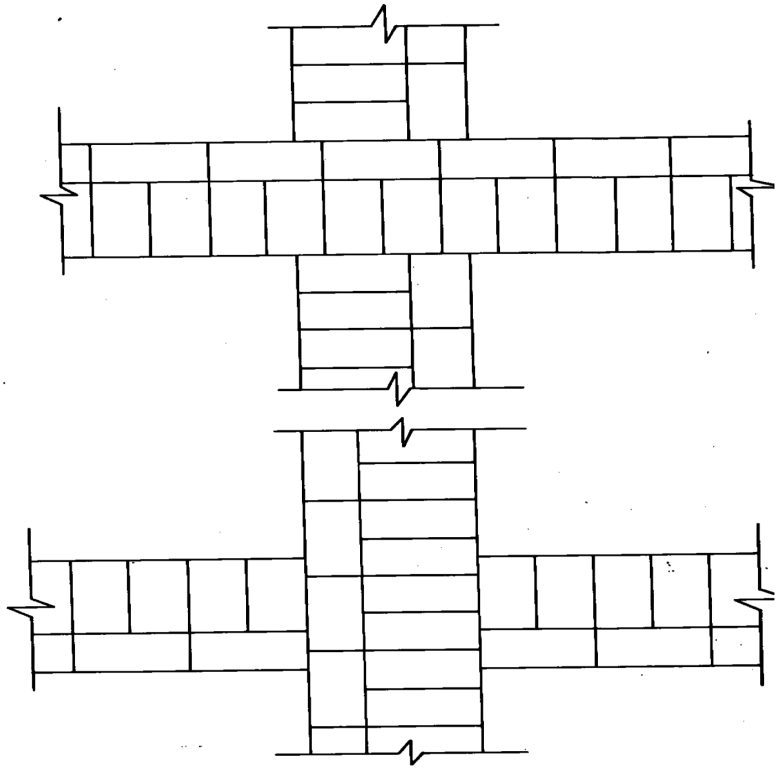
(Any 5 × 2) (10)

2.2
- Retaining forms in place
- Covering with water-proof material
- Liquid-curing compounds
- Sprinkling with water
- Ponding (5)

2.3
- Super-duty
- High-duty
- Medium-duty
- Low-duty
- Semi-silica (5)

[20]

QUESTION 3



ALTERNATIVE PLANS OF A ONE-AND-A-HALF BRICK WALL CROSS-JUNCTION IN ENGLISH BOND

Scale 1:10

TITLE	SCALE	CORRECTNESS	NEATNESS
1	1	4	4

(2 × 10) **[20]**

QUESTION 4

4.1
- Flush joints
- Weather struck joints
- Hollow-keyed joints
- Square recessed joints
- Raked-out joints (5)

4.2
- Toothing
- Block bonding
- Raking back (Any 2 × 1) (2)

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4.3
- 3-cube moulds
- Concrete
- Scoop
- Steel rod
- Gauging trowel
- Mould release oil
- Grease
- Labels (8)

4.4
- Stretcher course
- Brick-on-edge stretcher course
- Header course
- Brick-on-edge header course
- Soldier course
- Sailor course (Any 5 × 1) (5)

[20]

QUESTION 5

5.1 Substances other than cement, water and aggregate added to concrete and mortar mixture to change the property of the mixture (3)

5.2
- Roof screed
- Floors
- Walling for farm structures
- Walling in house
- Drainage layers (5)

5.3
- When unbonded there are no overlaps between successive courses.
- A bonded wall is made up of brick courses overlapping one another.

(2 × 2) (4)

5.4 To prevent the wall from cracking (2)

5.5
- Mastic asphalt
- Bituminous pitch
- Polymer and bitumen polymer felts
- Plastic membranes
- Elastomeric membrane (6)

[20]

TOTAL: 100

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