higher education & training

Department:
Higher Education and Training
REPUBLIC OF SOUTH AFRICA

MARKING GUIDELINE

NATIONAL CERTIFICATE

BRICKLAYING AND PLASTERING THEORY N1

5 APRIL 2018

This marking guideline consists of 5 pages.

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QUESTION 1

1.1
1.1.1 H
1.1.2 F
1.1.3 G
1.1.4 I
1.1.5 J
1.1.6 B
1.1.7 C
1.1.8 D
1.1.9 E
1.1.10 A

(10 × 1) (10)

1.2
- Steel tape
- Steel square
- Building line
- Straight edge
- Steel pegs
- Hammer

(6)

1.3 1.3.1 A comb hammer is used to trim face brick✓ to the correct shape and size.✓

1.3.2 A wooden float is used to finish/smoothen or float plaster, screed, topping and concrete.

(2 × 2) (4)
[20]

QUESTION 2

2.1 2.1.1
- Plastering is a substance which is applied to walls and ceilings.
- It is plastic when applied and later it hardens.
- Plastering allows for painting.

2.1.2 Rendering refers to applying mortar to a wall or cement mortar to the inner face of a manhole.

(2 × any relevant 3) (6)

2.2
- Cement
- Sand
- Lime

(3)

2.3
- Cracking
- Crazing
- Efflorescence
- Adhesion failures
- Popping

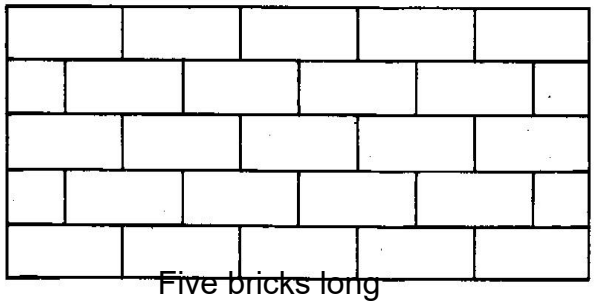
(5)

2.4
- Cement-sand plaster
- Cement-lime-sand plaster
- Gypsum-based plasters (3)

2.5 Concrete is a mixture✓ of stone, sand, cement and water✓ that is used for beams, slabs, foundations and staircases.✓ (3)
[20]

QUESTION 3

3.1 3.1.1 Five courses high

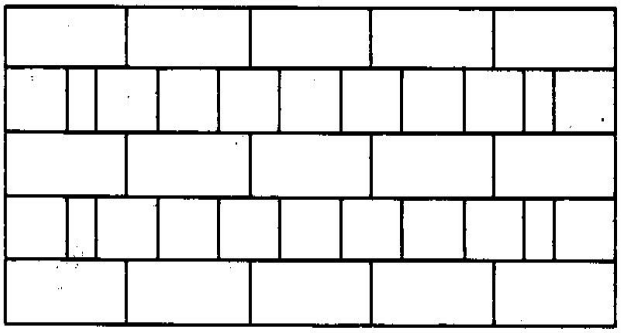


Five bricks long

STRETCHER BOND

(3 marks for correctness/drawing + 1 mark for title)

3.1.2 Five courses high

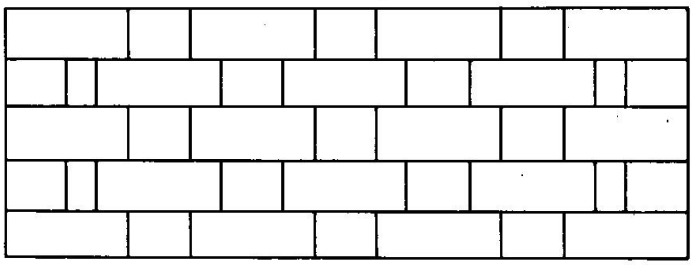


Five bricks long

ENGLISH BOND

(3 marks for correctness/drawing + 1 mark for title)

3.1.3 Five courses high



Five bricks long

FLEMISH BOND

(3 marks for correctness/drawing + 1 mark for title)
(3 × 4) (12)

3.2
- Window openings
- Internal corners of buildings
- Changes in wall thickness
- Piers (Any relevant 4 × 1) (4)

3.3
- Racking
- Toothing
- Block bonding (3)

3.4 Queen closure (1)
[20]

QUESTION 4

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

4.2 Racking back refers to the steps left in the brickwork when pulling up a corner, while toothing refers to leaving bricks out in the wall so that future work can be bonded into existing work. (Any relevant 2 + 2) (4)

4.3 4.3.1 Natural building stone is natural-occurring rock material cut,✓ shaped✓ or selected for use in building construction.✓ (3)

4.3.2 Block bonding means cutting out three or more bricks✓ from the existing wall and leaving an equal number✓ down the wall where the new wall must join the existing wall.✓ (3)

4.3.3 Grading of sand means passing a sample of sand✓ through sieves✓ to determine information about the sizes of grain.✓ (3)

4.3.4 Precast concrete is manufactured in a factory✓ and brought to the site where it is needed. ✓ (2)
[20]

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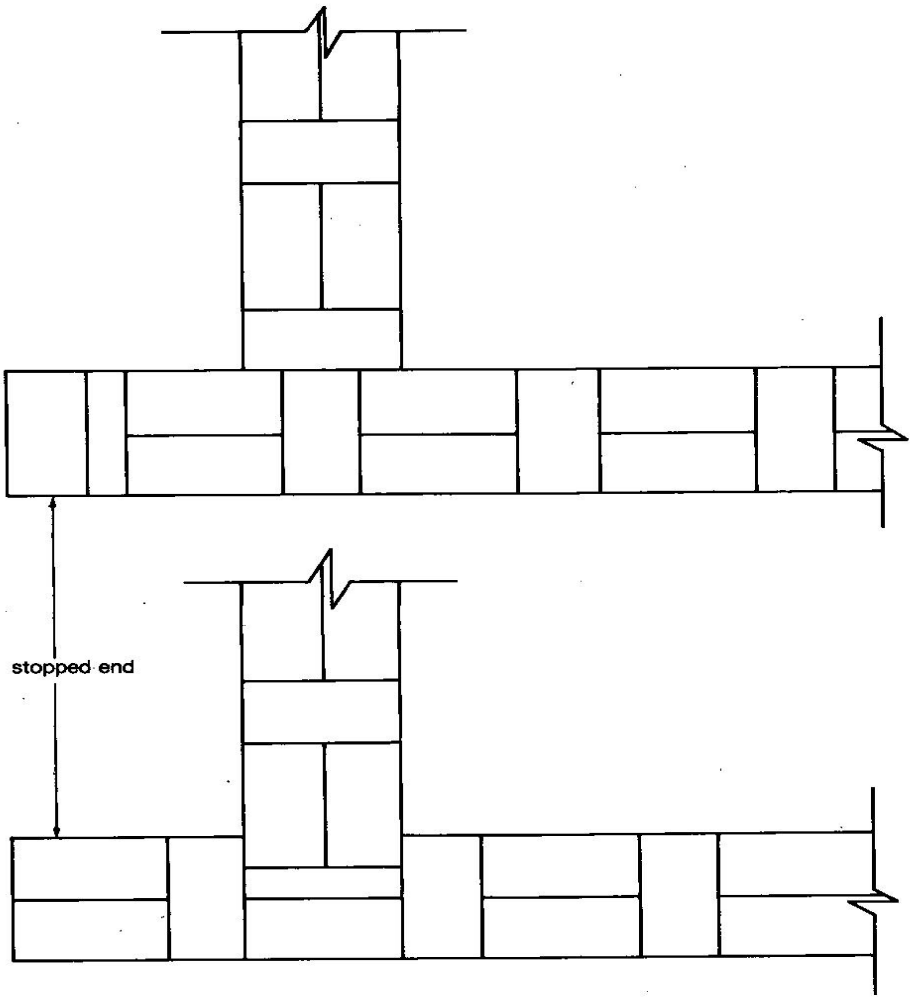
QUESTION 5



ALTERNATE PLAN COURSE OF A ONE-BRICK T-JUNCTION IN FLEMISH BOND

SCALE 1 : 10

Correctness/Drawing = 18 marks
Title = 1 mark
Scale = 1 mark **[20]**

TOTAL: 100

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