higher education & training

Department:
Higher Education and Training
REPUBLIC OF SOUTH AFRICA

MARKING GUIDELINE

NATIONAL CERTIFICATE

BRICKLAYING AND PLASTERING THEORY N2

1 AUGUST 2018

This marking guideline consists of 7 pages.

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QUESTION 1

1.1
- A rough arch is formed of uncut bricks and
- its shape is controlled by the type of turning piece or centre used to construct the arch.
- Its mortar joints are wedge-shaped and
- this plays an important part in the stability of the arch. (Any 3 × 1) (3)

1.2
- The plate must be true to the size and shape of the mould.
- The mould must be strong and firm.
- The mould must be suitable for the position in which the moulding is to be run.
- The mould should be convenient to use. (4)

1.3
- Basket weave
- Running pattern
- Stack
- Herringbone
- Stretcher (Any 4 × 1) (4)

1.4
- Flat arch
- Semicircular arch
- Circular arch
- Segmental arch
- Elliptical arch
- Gauged arch
- Axed arch (Any 5 × 1) (5)

1.5
- Cement
- Sand
- An aggregate such as stone or crusher dust (Any 2 × 1) (2)

[18]

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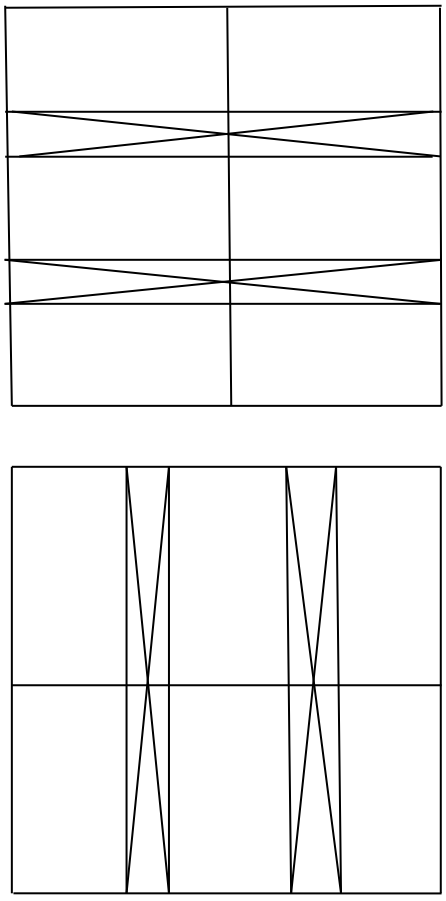
QUESTION 2

2.1

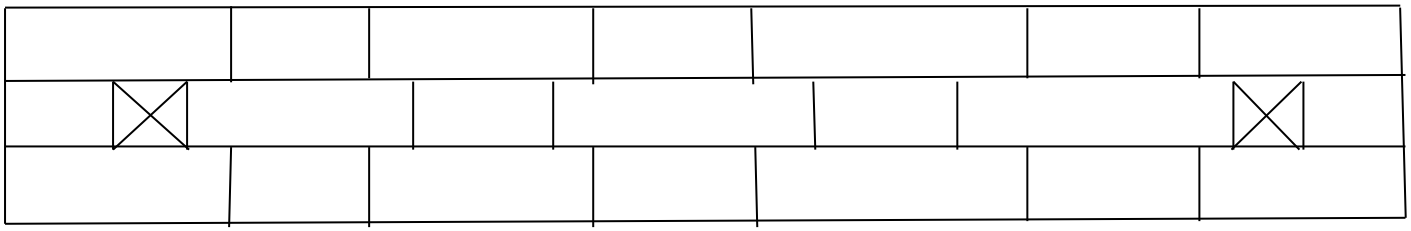


Correctness	6
Scale	1
Title	1
TOTAL	8

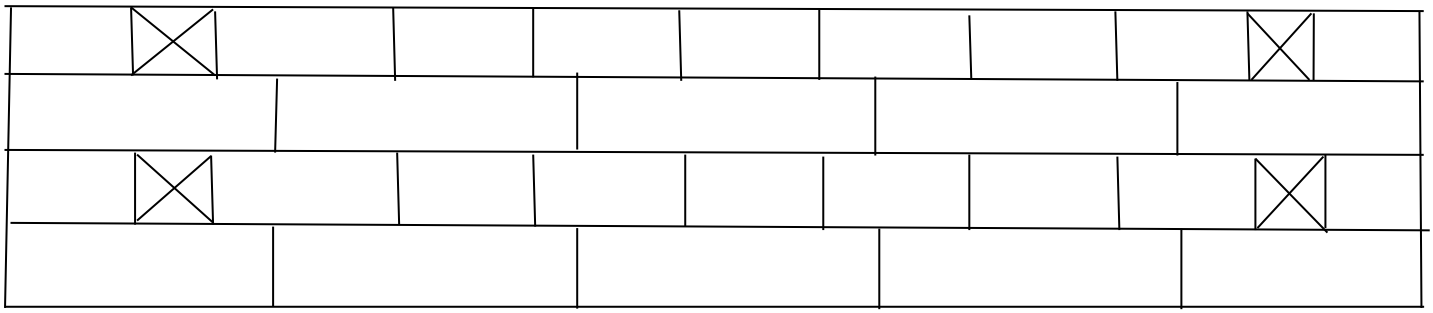
ALTERNATE PLAN COURSES OF A TWO-BRICK ISOLATED PIER IN ENGLISH BOND

SCALE 1:10 (8)

2.2



FRONT VIEW IN FLEMISH BOND



FRONT VIEW IN ENGLISH BOND

Correctness/Details	6
Title	2
TOTAL	8

(8)

2.3
- Top: Coping or roof
- Side: Plaster and paint
- Bottom: If there is no DPC (3)

[19]

QUESTION 3

3.1
- 1,200 mm
- 900 mm (2)

3.2
- Wood is cut
- into specified sizes and lengths.
- The cut timber then passes
- through a shaving machine.
- The long shavings
- thus produced are known as wood-wool.
- The wood-wool
- is then bonded together with cement. (OR any relevant answer) (4 × 2) (8)

3.3 3.3.1
- Rectangular pier
- Projecting from the face of the wall

3.3.2
- Free-standing load
- Bearing brickwork between openings

3.3.3
- An upright shaft
- Generally rectangular or round

(3 × 2) (6)

3.4
- Terrazzo is a composite material
- which is used for floor and wall treatments
- in which marble or stone chippings are used as aggregate.
- The surface is ground to a smooth finish when dry. (4)

[20]

QUESTION 4

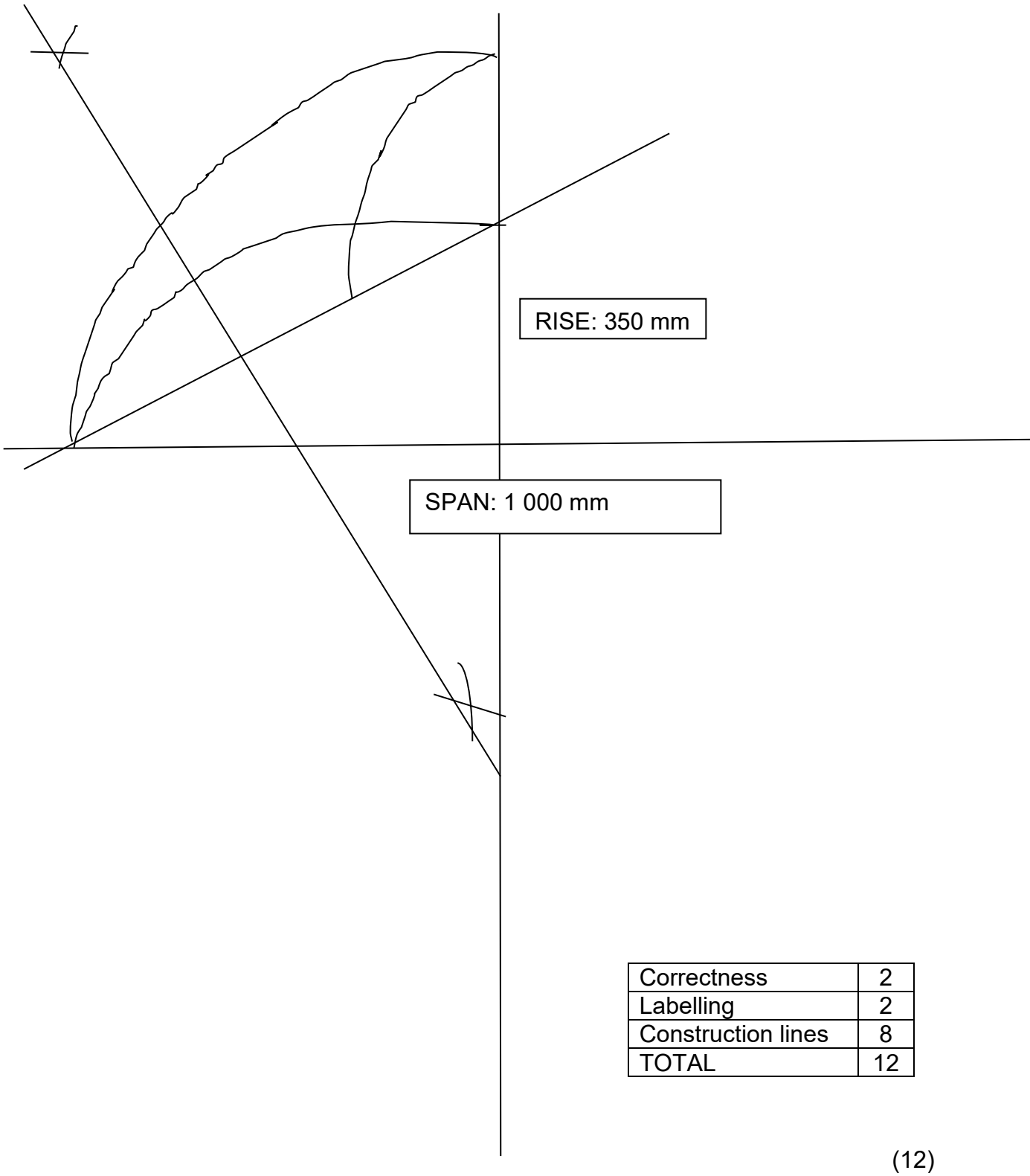
4.1 4.1.1 It has smaller mesh✓ because the finer grade will be used.✓

4.1.2 The bigger mesh✓ is used for exterior walls. Metal lathing also offers a better key for plaster mortar.✓

(2 × 2) (4)

4.2
- Retaining forms in place
- Ponding of water
- Sprinkling or spraying with water
- Covering with waterproof material
- Covering with sand or sawdust (Any 4 × 1) (4)

4.3



Correctness	2
Labelling	2
Construction lines	8
TOTAL	12

(12)
[20]

QUESTION 5

5.1
- It prevents rainwater from entering the inside of the wall.
- Two different types of masonry units can be used in the same wall.
- The enclosed airspace in the cavity acts as insulation against heat and cold.
- The stability of the wall is increased by broadening the base of walls that are often thin. (4)

5.2
5.2.1 G
5.2.2 B
5.2.3 C
5.2.4 D
5.2.5 E
5.6.6 F
5.2.7 A

(7 × 1) (7)
[11]

QUESTION 6

6.1
- The slope of the roof
- The shape of the building
- The direction of the flue in relation to the flue outlet
- The proximity of trees and/or other buildings
- The position of door and window openings (5 × 1) (5)

6.2
- Scaffold tube
- Swivel coupler
- Double coupler
- Guardrail
- Bay length
- Toe board
- Transoms
- Standards
- Base plate
- Putlog clip
- Cross bracing
- Ledgers (7)

[12]

TOTAL: 100

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