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Date: 25.07.2025 08:15 AM

073204T4MSN

MASONRY LEVEL 4**CON/OS/MA/CC/02/4**

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Interpret and Draw Simple Working Drawings

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5 AM**TVET CURRICULUM DEVELOPMENT, ASSESSMENT AND CERTIFICATION
COUNCIL (TVET CDACC)****WRITTEN ASSESSMENT**

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Time: 2 HOURS

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INSTRUCTIONS TO CANDIDATE1. This paper consists of two sections; **A** and **B**

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2. Answer **ALL** the question as guided in each section

3. Ma-cated in the back

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4. You are provided with a separate answer booklet to answer the questions

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5. Do not write in this question paper

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This paper consists of FIVE (5) printed pages

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At the question paper to ascertain that all pages are**printed as indicated and that no questions are missing**

SECTION A (10 MARKS)

Answer all questions in this section. Each question carries one mark

1. Which of the following is a reducing scale?

A. 10:1

B. 10:2

C. 2:1

D. 1:2

2. Which combination of drawing instruments is ideal for drawing a horizontal line?

A. Tee-square, pencil, drawing board

B. Compass, pencil, drawing board

C. Rule, protractor, pencil

D. Rule, pencil, dividers.

3. _____ size of drawing paper is available in the market.

A. D1

B. B3

D. C4

4. Drawing pencils are graded according to increase in relative _____.

A. Diameter

B. Sharpness

C. Length

D. Hardness

5. The following are applications of free hand sketch except _____.

A. Convey designer's idea to the draughtsman

B. Help convert orthographic to isometric views

C. Serve as a working drawing

D. Supply a three-dimensional view of an object to help in interpreting orthographic view

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6. Which type of a triangle has neither the sides nor the angles are equal?

A. Right angled

B. Scalene

C. Isosceles

D. Equilateral

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7. Which of the following grades of pencil is most suitable for free hand sketching?

A. B

B. HB

AM

C. 4H

D. 5HB

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8. Isometric grid paper has lines inclined at _____ to the horizontal.

A. 30° B. 45° C. 90° D. 60°

9. What is a conic section?

A. A frustum

B. A circle

C. An ellipse

D. A triangle

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10. A quadrilateral is a _____ sided figure which is bounded by straight lines.

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B.

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C. 7

D. 10

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SECTION B (40 MARKS)

Answer ALL questions in this section.

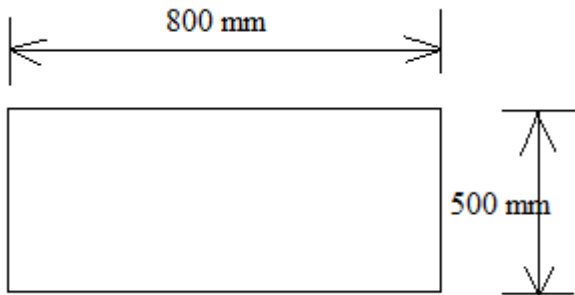
11. List THREE ways to care for technical drawing instruments. (3 Marks)

12. Give FOUR types of working drawings. (4 Marks)

13. Construct an isometric circle given the diameter of the circle is 60 mm. (4 Marks)

14. Give THREE methods of disposing defective technical drawing tools and equipment. (3 Marks)

15. Draw the rectangle below into a scale of 1: 10. (4 Marks)



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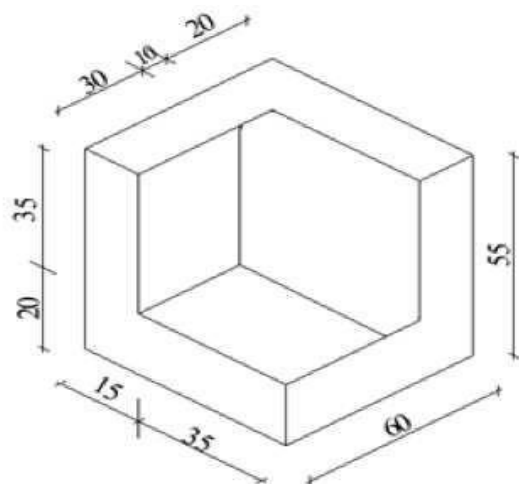
16. Name THREE personal protective equipment that a trainee needs in a technical drawing workshop. (3 Marks)

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17. Draw triangle ABC where $AB = 45 \text{ mm}$ and $BC=AC= 55 \text{ mm}$ and inscribe a circle. (4 Marks)

18. Draw the figure below into an isometric drawing. (4 Marks)



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19. Draw and name THREE different lines used in technical drawing. (3 Marks)

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20. Sketch the symbols of the following elements:

i. Double Door

(2 Marks)

ii. Gate Valve

(2 Marks)

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21. Differentiate between first angle and third angle orthographic projection.

(4 Marks)

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