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**PLUMBING LEVEL 4** 

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July /August 2025

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THE CURRICULAR BEVELOPLENT,

ASSESSMENT AND CHARGE TRUE. AT DOI.

# TVET CURRICULUM DEVELOPMENT, ASSESSMENT AND CERTIFICATION COUNCIL (TVET CDACC)

#### WRITTEN ASSESSMENT

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**Time: 2 HOURS** 

#### INSTRUCTIONS TO CANDIDATE

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- 1. This paper consists of two sections; **A** and **B**
- 2. Answer **ALL** the questions in section **A** and **B**

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D3te: 9VI 98r R \$2for8 e & c4h question are as indicated in the brackets

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- 4. You are provided with a separate answer booklet to an swerz the questions
- 5. Do not write in this question paper

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This paper consists of FOUR (4) printed pages

Candidates should check the question paper to ascertain that all pages

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#### **SECTION A (10 MARKS)**

## Answer All Questions in this Section. Each question carries one mark

- 1. How many (1) Kilometre?
  - A. 1,000,000 ate: 05.08.2025 08:02 AM
  - B. 10,000.
  - C. 100,000.
  - $D. \begin{array}{l} \text{Printed By Technical And V} \\ 1,000. \\ \text{Date: 05.08.2025 08:02 AM} \end{array}$ Technical And Vocational College
- 2. Which one of the following is the correct descending order of the following numbers?

23,16,20,25,70,61,59,20,112,99.

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- A. 112,99,70,61,59,25,23,20,20,16.
- B. 16,20,20,23,25,59,61,70,99,112.
- C. 59,61,70,99,112,16,20,20,23,25.
- D. 70, 99, 59, 61, 112, 16, 20, 20, 23, 25.
- 3. Which one of the following is the correct formula of calculating the volume of a cone?

 $\begin{array}{ccc} \text{A.} & 2\pi^2 r. \\ \text{Printed By: Technical And Vocational College} \end{array}$ 

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- C. Dh.
- D.  $\frac{1}{3}\pi^2 h$ .

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- 4. Solve the following equation  $(2-3) \times 4 + 8$ .
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A. 6.

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 $\overset{05.08.2025.08:02}{\text{C.}} \overset{22.}{22}.$ 

D. 4.

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- 5. Which one of the following is a linear equation?
  - A.  $X^3+y=4$ .

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B.  $4x^3-2x^2+7=0$ .

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- C.  $Y^4 + x^3 = 1$ .
- D. 2x-2=-1.

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- 6. Which one of the following is not a method of solving simultaneous equation?
  - A. Elimination method.
  - $B. \;\; Substitu_i t_i o_i t_{ed}^n m_e e. \;\; \text{Technical And Vocational College}$
  - C. By matr<sup>D</sup>icatees: .05.08.2025 08:02 AM
  - D. Equation method.
- 7. What is the size of the interior angle of a regular hexagon?

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B.  $80^{\circ}$ 

C.  $120^{\circ}$ 

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D. 30<sup>0</sup>

- 8. Evaluate 1009cm-356cm-742cm+94cm.
  - A. 200cm.
  - B. -183cm.
  - C. -83cm.
  - D. 100cm.

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 $9_{ate}$ : Simplify:  $(x_0 - 4)$  (x + 5).

A. 
$$x^2 + 5x - 20$$
.

B. 
$$x^2 - 4x - 20$$
.

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C. 
$$x^2 - x - 20$$
.

$$\mathsf{AM}$$

D. 
$$x^2 + x - 20$$
.

10. Identify mode in the following numbers 0,2,9,8,11,20,8,7,2,10,2

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B. 20.

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C. 2.

D. 0.

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#### **SECTION B (40 MARKS)**

### Answer ALL questions in this section.

- 11. You are applying by enibe entry given a classky popular pipe laying at the school composition of the number of pipes you are going to lay.

  (3Marks)
- 12. Solve the following: 5x+3y+z-3x-4y+6z. (4Marks)
- 13. Multiply the following: (3x-2) (2x-5).

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  (3Marks)
- 14. Solve the following equation for the values of x and y.

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2x - y = 6.

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x + y = 6.

15. Find the median, mean and mode of the following sequence of numbers of the data collected from the class score in mathematics. (5Marks)

29,28,21,23,25,26,31,26,32,27

16. A water tank is in the shape of a rectangular prism having length 2m, breath 75 cm and height of 50 cm. determine the capacity of the tank in m<sup>3</sup>. (3Marks)

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(3Marks)

Date: 167.0 Converto 1 A5Nm³ in cubic centimeters.

- 18. Solve for the value of x in the following equation  $2\log x \log(x-1) = \log(x-2)$ . (3Marks)
- 19. Calculate the area of a rectangle whose length and width are 30cm and 17cm

20. 
$$\frac{\text{respectively.}}{\text{If A}} = \frac{2}{1} = \frac{3}{4}$$
 and  $\frac{2}{1} = \frac{3}{4}$  and  $\frac{3}{1} = \frac{7}{4} = \frac$ 

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(4Marks)

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 $2x+6-3x+1\frac{3}{4}x=0$ 

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