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PLUMBING LEVEL 4

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July /August 2025

Printe And Vocational College Date: 05.08.2025 07:53 AM echnical And Vocational College Date: 05.08.2025 MANAKA

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 $\bf A$ and $\bf B$ Printed Technical And Vocational College

D3te: 9VI 98r R \$2 FOT 6 a chMquestion are as indicated in the brackets

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- 4. You are provided with a separate answer $b_0 o_1 k_1 e_2 t_3 o_2 a_1 s_2 w_2 e_{53} t_4 e_6$ 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 millimetre e Kilometre?
 - A. 1,000,000 ate: 05.08.2025 07:53 AM
 - B. 10,000.
 - C. 100,000.
 - $D. \begin{array}{l} \text{Printed By: Technical And Vocational College} \\ 1,000. \\ \text{Date: } 05.08.2025 \text{ } 07.53 \text{ AM} \end{array}$
- 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?

 $\text{A.} \quad 2\pi^2 r. \\ \text{Printed By Technical And Vocational College}$

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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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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.
 - $B. \ \ Substitution new \ \ \ \text{Technical And Vocational College}$
 - C. By matr^Dicatees: .05.08.2025 07:53 AM
 - D. Equation method.
- 7. What is the size of the interior angle of a regular hexagon?

 $A.~60^{\prime\prime}$ Date: 05.08.2025 07:53 AM

B. 80°

C. 120°

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D. 30⁰

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

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 9_{ate} : Simplify: $(x_{5.3}-4)$ (x + 5).

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

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

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

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- 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 a plum be given be eather given at task to perform pipe laying at the school comptour of 8 & f25d9 st 5an the of 1. 3km. Given that the length of the pipe is 4m. Calculate 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).

 (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 m³. (3Marks)

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Date: b7.0 Consverts1.45vm³ in cubic centimeters. (3Marks)

- 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.
$$\frac{\text{respectively.}}{\text{If A}}$$
 and $\frac{2}{1}$ and $\frac{3}{1}$ and $\frac{-5}{4}$ Printed By Technical And ($\frac{3}{1}$ And ($\frac{3}{$

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(4Marks)

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

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