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073204T4MSN

MASONRY LEVEL 4

Measure and Calculate Objects Parameters

July/August 2025

Printed By: Technical And Vocational College Date: 30.07.2025

07:42 AM

TVET CDACC

TYET CURRICULUM DEVELOPMENT, ASSESSMENT AND CHRONICAL PROJECT OF COUNCIL

TVET CURRICULUM DEVELOPMENT; ASSESSMENT AND CERTIFICATION COUNCIL (TVET CDACC)

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Date: 30.07.2025 07:42 AM

WRITTEN ASSESSMENT

Time: 2 HOURS

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INSTRUCTIONS TO CANDIDATE

1. This paper consists of two sections; **A** and **B**

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- 3. Marks for each question are as indicated in the brackets 07:42 AM
- 4. You are provided with a separate answer booklet to answer the questions
- 5. Do not write in this questio Printed By: Technical And Vocational College

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This paper consists of FIVE (5) 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

	Answer an questions in this section	i. Each question carries one mark		
1. The dime	ensions of a wood dancem aby 35 camal Woha	t _e is the area of the plank?		
A.	305 squ ^D a ² re 2011 ^{7.2025} 07:42 AM			
B.	100 square cm			
C. D	350 square cm inted By: Technical And Vocational College 503 square cm ate: 30.072025 07:42 AM			
2. The following are types of triangles except?				
A.	Right-angle triangle	Printed By: Technical And Vocational College Date: 30.07.2025 07:42 AM		
B.	Isosceles triangle			
C.	Conical triangle			
D.	Scalene triangle			
3. The ratio of cement to sand used to make mortar is 2:3. How much cement should be used if a				
worker needs 100kg of mortar?				
	40 kg			
Printed And Vocational College Date: 30.07 B_2 -02 9_5 0 $_{07}k_{.4}g_{2}$ AM				
C.	100 kg			
D.	80 kg			
4. An octa	gonal base prism has	SidPersin_ted By And Vocational College Date: 30.07.2025 07:42 AM		
A.	6			
Printed $B_{B^{\bullet}y}$: Technical And Vocational College Date:				
3℃.07 4 2	0 2 5 07:42 AM	B' + 1B + 1V + 1 + 10 B + 10 07 07 07 07		
D.	5	Printed By: And Vocational College Date: 30.07.2025 07:42 AM		
5. The price of a bag of cement was lowered by 15% then after a short period the new price was				
raised by 20%. What was the neal price was Sh. 500?				
	Sh. 510 Date: 30.07.2025 07:42 AM			
B.	Sh. 75			
C.	Sh. 425			
	Vocational College Date: $30.07.2025\ 07:42\ AM$ e value of x given: $3x + 3 = 15$.			



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Date: 30.07.20					
A.	8				
B.	1				
C.	4 Printed By: Vo	ocational College Date: 30.07	7.2025 07:42 AM		
D.	6				
7. How ma	any millimeters ma	ake one meter?			
	10000 mm inted By Technical And \ 500 mm ate: 30.07.2025 0742 AM	√ocational College			
C.	1000mm				
D.	100mm		Printed By: And Vocational College Date: 30.07.2025 07:42 AM		
8. Area of	a triangle is given	by			
A.	$1\times h$				
B.	$1 \times\! w \times h$				
C.	$\frac{1}{2}$ (b ×h)				
D.	$\frac{1}{2}(a+b) h$				
9. Which tool is used to check verticality in masonry construction?					
Printed By: Technical And Vocational College Date 30.0 A202 M Says Q2nA s square					
B.	Hammer				
C.	Plumb bob				
D.	Tape measure		Printed By Technical And Vocational College Date:		
30.07.2025 07:42 AM 10. A steel worker needs to cut a steel rod into pieces. If the rod is 15 meters long, and each					
piece needs to be 3 meters long, how many pieces can be obtained? Printed By Technical And Vocational College					
Date: 30.0	7.2025 07:42 AM				
B.	3		Printed By: Technical And Vocational College Date: 30.07.2025		
C.	5		07:42 AM		
D.	8				
	Printed By: College Date: 30.07.2025 07:42 AM				

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SECTION B (40 MARKS)

Answer ALL questions in this section.

- 11. Omolo owns and the sells to retailers around the sells to retail the sells the sells to retail the sells the sells to retail the sells the sells the sel
- 12. A bathroom wall is to be tiled. The wall is measuring 4.5m x 5m and the tiles to be used are Printed By Technical And Vocational College 250 mm x 3.00mm wall tiles.
 - a. How many boxes of tiles should be bought if each box carries 15 pieces of tiles? Allow for 5% breakages. Correct to who le n um Date: $30.07.2025 \ 07:42 \ AM$ (4 M a rks)
 - b. If each box is bought at Ksh. 400 and the labour cost for tiling a square metre is Ksh.60. Find the total cost of tiling the wall. (4 Marks)
- 13. Calculate the volume of concrete required to make a cylindrical concrete pipe of external and internal radius, 0.18 and 0.30 m respectively and length 5 m. Give your answer to 3 decimal places, in m3. (4 Marks)
- 14. A hand ball pitch measures 80m by 50 m. determine

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Date: 300^a-20^Lts_Ua₄r-ea_{AM} (2 Marks)

b. Its perimeter (2 Marks)

15. Solve the Linear equations below:

$$10y + 5 - 5y = 0$$
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16. Use substitution method to solve the following equation:

$$2x + 3y = 10$$
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$$4x - 2y = 6$$
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- 17. A Painter used 5 littes of paint, 6 brushes in daynon ain t/&ca2obarushtesein day two during wall painting. If the cost of Palinte and do 7b rurshes 42n day one is Ksh 600 while in day two is Ksh.300. Find the cost of a litter of paint and a brush. (4 Marks)
- 18. A measuring cylinder which and condition of the Date: 30.07.2025 07:42 AM container. If the density of the solid is 60g/cm3, find the new reading on the cylinder jar.

(4 Marks)

19 teA pv. ular tank measures 7m by 4m by 6m. Calculate its capacity in littes.

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20. Rono ran from town E to town Z and back. If the distance between the two towns is 21 km, what distance did he cover in metres. (3 Marks)

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