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THE REVOLUTIONRY GOVERNMENT OF ZANZIBAR ZANZIBAR EXAMINATIONS COUNCIL FORM ONE ENTRANCE EXAMINATION

104 MATHEMATICS

TIME: 2:30 HOURS THURSDAY 17TH OCTOBER, 2024 A.M

INSTRUCTIONS TO THE CANDIDATE

- 1. This paper consists of two (2) sections A and B.
- 2. Answer ALL questions in section A and FOUR (4) questions in section B.
- 3. Write your answers in the space provided.
- 4. Write your Examination Number on each page.
- 5. Use a blue or black pen in writing and diagram must be in pencil.
- 6. Cellular phones, calculators and unauthorized materials are not allowed in the examination room.

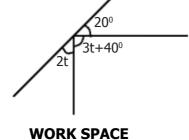
FOR EXAMINER'S USE ONLY					
QUESTION NUMBER	MARKS	SIGNATURE			
1.					
2.					
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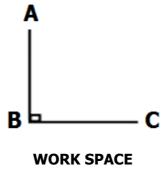
		SECTION A: (60 Marks) Answer ALL questions in this section.	For examiners' use only
1.	a)	i. List all prime numbers between 40 and 56.	
		WORK SPACE	
		ii. What is the sum of all prime numbers between 40 and 56? WORK SPACE	
	b)	Evaluate $-9 \div (+3) \times (-23)$ WORK SPACE	
2.	a)	Convert 700 metres in to kilometres WORK SPACE	
	b)	dm cm mm 9 4 0 Work out - 6 7 5 WORK SPACE	

3. a) Find the value of t from the figure below.





b) Bisect the given angle by using a mathematical sets then measure the angle and write its value.



4.	Find the LCM and GCF of 30, 24 and 36.	For examiners' use only
	WORK SPACE	
_		
5.	Four best students of STD 5 in Karafuu Primary School have ages 15 years, 17 years, 13 years, and 13 years. Find the average of their	
	ages.	
	WORK SPACE	
6.	Sungura cut his loaf into 12 equal slices, 3 slices were given to	
	Simba and 4 slices were given to Nyoka. Write as a fraction of the	
	total slices given to both.	
	WORK SPACE	

7. Solve the equation 4(2x-2) = 3(x+4)

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WORK SPACE

8. a) Convert the following numbers into given bases

i. $(351)_{10} = ()_4$

WORK SPACE

ii. $(1110)_2 = ()_3$

Candidate's Examination Number _____

	For
b) Evaluate	examiners' use only
i. $1011_2 + 1101_2 =$	
WORK SPACE	
WORK SPACE	
ii. $110101_2 - 1010_2 =$	
WORK SPACE	
WORK SPACE	

9.	a)	Simplify the algebraic expression. $7x - 16y + 20x + 5y - 12x$ WORK SPACE	For examiners' use only
	b)	A father is five times as old as his son. The difference in their ages is 32 years. How old are they? WORK SPACE	

	For
10. a) Write 66.109 in words.	examiners' use only
	,
WORK SPACE	
b) A water bushet weight was 0 501 when it was smart and	
b) A water bucket weight was 8.73kg when it was empty and	
19.59kg when it was filled with water. How much did the water	
weigh?	
WORK SPACE	

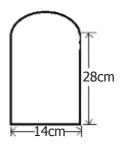
		SECTION B: (40 Marks)	For examiners
		ANSWER FOUR (4) questions in this section.	use only
11.	a)	In the bag there are red and green sweets, the ratio of red sweets to green sweets is 3:4. If the bag contains 120 green sweets, how many red sweets are there?	
		WORK SPACE	
	b)	4 pineapples cost 14,000/ How much 35 similar pineapples will cost?	
		WORK SPACE	

12. a) Daudi is running around a circular track. If the circle has a diameter 21 metres. Find the circumference of the track. (Use $\pi = \frac{22}{7}$)

For examiners' use only

WORK SPACE

b) In the morning of Eid fitr, my mother cut a slice of cake as shown below. What is the perimeter of the slice of cake?



13	a١	A cube has a volume of 343 cm ³ . Find its surface area.
13.	a)	A cube has a volume of 343 cms. Find its surface area.

For examiners' use only

WORK SPACE

b) A cylinder has a radius of 28 cm. If the cylinder contains 86240 cm³ of water. How deep is the water? (Use $\pi = \frac{22}{7}$)

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			F
14.	a)	Mzee Makelele had 120,000/ He bought the following goods	For examiners'
		3 kg of beans @ 2,700	use only
		5 kg of rise @ 4,500	
		7 kg of sugar @ 2,600	
		2 bars of soup @ 1,200	
		How much would he remain with?	
		WORK SPACE	
	h)	A cloth dealer bought some clothes for 56,000/- and sold them	
	D)	for 2,950,000/ Find the percentage profit of the clothes.	
		WORK SPACE	
		WORK SPACE	

15.a) At Darajani bureau de change, the rate of exchange is 2,500

Tsh per Us dollar. If I have 3,757,400/- and I want to buy

Samsung mobile phone for 1,270 Us dollar, how much money in Us dollar will remain in my pocket?

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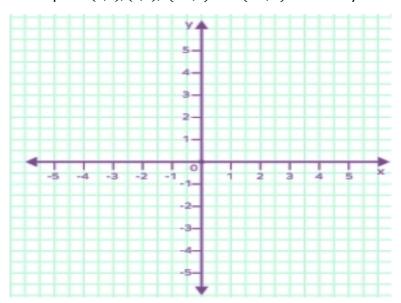
WORK SPACE

b) What is the rate of exchange when 2,400 South Africa rand were changed by 384,000 Tsh?

16. Use x-y plane to answer the following questions.

i. Which point (0,3), (5,0), (-1,3) and (-2,0) is in the y-axis?

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ii. You are at A (-4,3), move 5 units right and 2 units up. Write coordinate of point B where you reach.

WORK SPACE

iii. Use xy plane to join the two points in (ii) above and name the line.

ROUGH SPACE	

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