SMZ

ZANZIBAR EXAMINATIONS COUNCIL

FORM ONE ENTRANCE EXAMINATION

130 MATHEMATICS

TIME: 2.30 HOURS MONDAY 27thNOVEMBER,2017 a.m

- 1. This paper consists of TWO (2) sections A and B
- 2. Answer ALL questions in section A and any FOUR (4) questions in section B.
- 3. Write your answers in the spaces provided.
- 4. Write your examination number on each page.
- 5. Cellular phones are not allowed in the examination room.

FOR EXAMINER'S USE ONLY						
QUESTION NUMBER	MARKS	SIGNATURE				
1.						
2.						
3						
4.						
5.						
6.						
7.						
8.						
9.						
10.						
11.						
12.						
13.						
14.						
15.						
16.						
TOTAL						

This paper consists of 23 printed pages

Candidate's Examination No	umber
-----------------------------------	-------

SECTION A: (60 Marks)

Answer ALL questions in this section

l.	a)	Find the LCM and HCF of 24 and 36.
	b)	Evaluate ³ √216.
2.	a)	Express 1.25 as a fraction.

Candidate's Examination Number_____

	b)	In calendar of any year there is only one month likely to have different number of days, name this month.			
3.	 a)	Given that 1 Kenya shillings is equal to 19 Tanzania shillings. Convert 34,200 Tanzania shillings into Kenya shillings.			
	b)	Consider the figure below; find the area of shaded region.			
		26 cm			
٠.	—— а)	Husna thought of a certain number and subtract with 4, the result was 1 What is the number?			

	Candidate's Examination Number
5.	a) If p is directly proportional to q and $p=70$ when $q=5$,find p when $q=20$.
	·
	b) Find the product when 450 is multiplied by 25.
6.	a) Write the following number in numerals
	Five million, three hundred and twenty one thousand, five hundred and thirty Six.
	b) List the prime number between 90 and 100.

	Candidate's	Examination	Number				
--	-------------	--------------------	--------	--	--	--	--

b) Draw isosceles triangle whose equal sides are of the length 4cm and the is of the length 7cm.	base
8.	a)661.8 + 566.8	
	b) Evaluate 0.64 ÷ 0.2	
€.	a)Convert (10121) ₃ to base8	

	Candidate's Examination Number				
b) <i>If</i> (C: D = 10: 15 . Find the value of D when				
С	= 100.				
	8r 32vz				
l0.a)S	$ implify \frac{8x}{21y} \div \frac{32yz}{14y} $				
b)	Solve the algebraic equation $2x + 34 = -24 + 5x$				

Candidate's Examination Number	•
---------------------------------------	---

SECTION B: (40 marks)

Answer ANY four (4) questions in this section

	_	
_		
_		

a) What is the other name of average?

11.

b) In national campaign for fighting AIDS, people volunteered to the test for HIV.Some of the people living with HIV in seven (7) districts are distributed as follows: 4,367 people in district A, 2,307 people in district B, 1,268 people in district C, 3,311 people in district D, 1,112 people in district E, 4,367 peoplein district F and 4,367 people in district G. What is the mean of the people livingwith HIV?

12. The following table shows how a certain pupil spends his time per day.

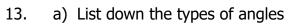
Activity	Sleeping	Lesson at school	Home work	Sport and game	Leisure
Number of hours	7	7	3	3	4

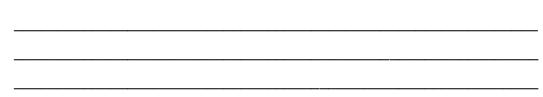
Candidate's Examination Number_____

a) Calculate the number of hours into degrees.

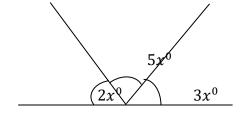
	_		

b) Draw the pie chart represents this information.





b) i) Find the value of x^0 in the figure below



	Candidate's Examination Number						
14. a	a) Define the following terms. i. Profit						
	· · · · · · · · · · · · · · · · · · ·						
	ii. Loss						
b) i)	Asha bought a book						
	for 10,000 shillings and sold it for 6,000 shillings. Find the percentage loss.						
	ii) A hardware dealers bought a white cement for $84,000 \text{shillings}$ and sold it at a profit of 10% . Find his profit.						
							

Candidate's Examination Number_____

1	5.	a) i	i) List down three (3) types of fraction.
			ii) Write $\frac{12}{9}$ as mixed number.
	b)		Find the value of $\frac{2}{5} \times \frac{1}{7} \div \frac{5}{9} + \frac{3}{4} \left(\frac{1}{7} - \frac{2}{7}\right)$
16.	a)		Define the term interest.
	b)		Maryam got an interest of $shillings~300,000$ after depositing a certain amount of money at interest rate of 5% per annum. What was the total money in her bank account after $10~years$?

Candidate's Examination Number	

ROUGH WORK

Candidate's Examination Number						