## THESIPRO PRE-PLE SET VI 2022

## **MATHEMATICS**

Time Allowed: 2 Hours 30 Minutes

w.X	Random No.		Personal No.				
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Index No.	-		,				
Candidate's	Name:					•	7
Candidate's	Signature: _	1					
School Ran	dom No:	1.	1.		 14.	(ALEICA)	- 18
District ID: _					 -		

## READ THE FOLLOWING INSTRUCTIONS CAREFULLY:

- 1. This paper has two sections: A and B.
- 2. Section A has 20 questions (40 Marks).
- 3. Section B has 12 questions (60 Marks).
- Attempt all questions in both sections. All answers to both sections A and B must be written in the spaces provided.
- All answers must be written in blue or black ball point pens or *ink*. Only diagrams and graph work must be done in *pencil*.
- 6. Unnecessary *alteration* of work will lead to loss of marks.
- 7. Any *handwriting* that cannot be easily read may lead to loss of marks.
- 8. Do not fill anything in the boxes indicated:

"FOR EXAMINER'S USE ONLY"

## For Examiner's Use Only;

PAGES	MARKS	INITIALS
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326	to a mithaeda enevi odwisacijon A	40 arry	MARKS
1	Work out: 64 + 23	2	Write in figures: Seven thousand, forty eight.
3	Change 9 <sub>ten</sub> to binary base.	4	In the venn diagram, <b>shade</b> the region (A only Union B only)
5	Work out: 2 - 6 =(finite 7)	6	Solve the equation: 2(3x - 6) = 24
7	Use a ruler, a pencil and a protractor to draw a perpendicular line at point A.	8	What smaller angle is between the hands of a clock face when it reads 8 o'clock?



- 555		Will Date Lawere absent in a class
9	The graph below shows the humb	er of pupils who were absent in a class
	of 50 pupils. Use it to answer the c	Work out 64 + 23
i ii s	Thinks in the contract course of the	87 - 40 000
	forty eight	
-	<u>∞</u> 1	
-	후 30	
	ā	
	Ö 20-	
17	le de la companya de	
	mper of pupils	And the state of t
21	Constant Decaye Not and State of State	• 1.00
	1000 100 10 (100 100 100 100 100 100 100	<b>—</b>
	Mon Tue	Ned Thut Fri
hi.	Days in	a week
	On which day of the week was the	attendance best?
a.g		
100		
10	Sixty-three poles are fixed in a st	raight line along one side of a road. The
'0	noles are fixed at intervals of 5 me	etres. Find the <b>length</b> of the road.
	poles are fixed at intervals of a	
<i>i</i> .		
		10 TI St the ship ship ship ship
11	Th prime factors of 24 and 36	12 The profit on the shirt sold at sh.
	are given below:	45.000 was sh: 12,000. Calculate
	$24 = 2^3 \times 3$	the <b>cost price</b> of the shirt.
, .	$36 = 2^2 \times 3^2$	The state of the s
	Use the given prime factors	
7.2	above to <b>find</b> the Greatest	
	Common Factor of <b>24</b> and <b>36</b> .	
	Common racion of 24 and 30.	
	Company of the compan	A CONTRACT OF THE PROPERTY OF
		ne pad a minom
		in Ada Masan



13	The figure below shows a not of I	1 1	The ded part in the figure below
Po re	a solid figure.	14	The shaded part in the figure below represents the number of boys in a
	SOUTAN SOUTAN		represents the Harris
		3 11.	school.
	1777	4	
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1.19	**************************************
	The second second		
		1	
,	<b>†</b>	e in the see	The second area
		·	
	If the area of the shaded face		how many
+	is 36m², calculate the length of		If there are 490 girls, how many
Mary 3	each side.		pupils are in the school?
¥	k		
	great the second of the second		William Company
			· 22
		. 6	
15	Express 0.1555 as a common	frac	etion. 4
		-8.78	
	a si ani no il		8 7 m
16	The number of right angles in a re-	ءا، بوء	10
	has the polygon?	eguia	ar polygon is 10 . How many sides
7	nas the polygon:		
			10 to 10 20 to 10 to
			1970
,			
17	Find the median of the surely	10 4	
	Find the median of the numbers;	ιờ, 1	U, 4, 2, 8 and 19.
		,	
	This is a second or the second		the state of the state of
1 Sales Const	THE PROPERTY OF THE PROPERTY O	Man .	the case the state of the state
(6)	© Sinro Educational Services Te	11.77	



			The 3rd and 5th
18	Given that $x = -2$ , $y = 3$	and z = 4; 19	Find the sum of the 3 <sup>rd</sup> and 5 <sup>th</sup>
10	find the value of y (x <sup>2</sup> -	r z)	composite numbers.
	illia tile value oi y (		(2, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,
			and the second second
			1. 7
			7.77
	Assets	10 mm (1 mm)	
			1 1tivo property
20	Work out (225 ÷ 9) +	(144 ÷ 9) using	g the <b>distributive</b> property.
20	11011, Out (220 )	,	
			·
			· and it is a second of the se
			ONADKS
	Mari 6	SECTION B: 6	
	Marks for each pai	T of the question	n are indicated in the same and rice, not only, 8 enjoy posho and rice, a not only, any of the two foodstuffs.
21	In a class of 6y pupils	s, 22 enjoy posn	o not enjoy any of the two foodstuffs.
	2y + 8 enjoy rice (R)	while 6 pupils do	o not enjoy any of the two
(a)	Complete the venn d	iagram below.	
		$n(\Sigma) = 6y$	
		PR	
	1 See A. y	\(\( \( \) \( \) \\ \\ \) -	
	4.4	$\setminus$	
			—— (02 marks)
<u> </u>	V T' 1th a value of v		) How many pupils do not enjoy
b	Find the value of <b>y</b> .		posho?
			posito:
1		4 <sup>10</sup>	
		Y	
		* 3	
).			
		and the second	
		(00	(01 mark
		(02 marks)	OTHIAIN



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IGNITE CRITICAL THINKING AND EXPERIENCE ACTUAL LEARNING WITH THE ACTIVITY BOOKS, SEMAS, TEACHER'S GUIDES & PUPIL'S COMPANIONS.

22	The tab	le below shows	the shopp	ing hill for M	r. Matovu. Słudy it	
a)	Carefully	' and use it to ans	wer the qu	estions that fo	ollow.	
a)	Item	Item (Output)				
Ì	Meat	Grantity	Unit co		Total cost .	
		$2\frac{1}{2}$ kg	sh.150	00per kg	sh	-
	Milk	litres	sh 200	0 each litre	sh	
	Bread	4 loaves	sh.	per loaf	sh. 20,000	
		Exp	penditure	The second secon	sh. 63,500	
					(04 ma	rks)
b)	If Mr. Ma	tovu went with sh	.70.000 w	hat was his c	hange?	
23					DEMONSTRATE TO A STATE OF THE S	
a)	Mark sco Number	TOO COLL	40	ey scored.  y 60	who sat for PLE at	
b)	If the mea			How many below the a	(01 ma	ark)
TE.		(03 m	narks)	1	(1 mark	
					(1 math	1.0



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On a farm, the fraction of goats is 1 more than that of the sheep. If there 24 are 36 sheep on the farm; Work out the total number of Find the fraction of the sheep on a) animals on the farm. the farm. (02 marks) (03 marks) Find the area of the shaded part in the diagram below; 25a) (Take  $\pi = 22$ ) 16cm 7cm 24cm (04 marks)

31 IA, seathic buse is fun the soud 10 makes must



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26a)	Solve the internation of the work	b)	Simplify: $y^6 - y^4$	
,	x 2 + 9 < 05 8	ן	n PE - Od G	
	five		#PF	
		e e		
	and the same of th			
	er green to account of the figure		* **	
		1		
	in the second second	No.	0	4
		( )	Party St.	
	ં પોર્ટિક મુખુર્ગને સ્ટોપુરક છે. જેવા	(3 <sup>1-1</sup> )	radice to the section of	. 6
			TO RECEIVE OF THE RESIDENCE	
l <sub>e</sub>				-
		i my i	The Company	
		`		
1	(02 marks)		(02 n	narks)
27a)	The exterior angle of a regular	b)	Below is an isosceles triang	le.
	pentagon is 5k + 12º. Find the		Find the size of angle ACB.	
	19 1		В	
	value of <b>k</b> .		48°	N.
			***	in i
			A 221-120-	
			A Dr	$\sim$ c
1	The basis of the same	y		
			430	
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		ήJ.,		
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	(03 marks)			
	(oo marks)		(03)	marks)



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28a)	Solve the equation: viriginia: (a)	)	Solve the inequality: 10 1 000 (885)
,	3p + 6 = 2+p		9 - 2e > e + 3
	5		
		-	A STATE OF THE STA
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		
			and the second
	t		
	(O2morks)		(02marks)
	(03marks) The figure below is of a piece of lar	- d 14	ith straight edges of length 2.6cm
29	The figure below is of a piece of lar	ia w	All Straight 555
	and arcs of radius 1.4cm. (Take $\pi$	44	)·
É	1.4cm 2.6cm	1	
	(	1	Alexander Colonia
		2.6	ocm
	300	1 62	
	2.6cm	1	
	2.6cm 1	m;	
a)	Work out its area.	b)	Calculate its perimeter.
1		,	
			State of the State
	(03 marks)		(02 marks)
30a)		b)	
Jour			180km at an average speed of
			72km/h. If he reached his
			destination at <b>5:15pm</b> , at what time
			did he start the journey?
			did the start the journey!
		¥ .	
	(02 marks)		(03 marks)



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31	An electric pole is <u>1</u> in the mud, <u>10</u> metres in water and <u>11</u> above water.
500	5 20
a)	Find the legth of the electric pole.
	The state of the s
	(Ò3marks)
p)	A parent gave $\frac{1}{2}$ of an orange to her three daughters and the rest to her
	sons. Each of the sons got $\frac{1}{6}$ of the orange. Find the total number of
	children that received the orange.
3	
00.1	(03marks)
32a)	
	WXYZ where line WX = 7.5cm, line XY = 3.5cm.
	6.20
	a covered a unitable
	(180km at an average spet at
	i Zakin/la II he reached/bi
16.	destration at 5,15pm, a
	(Odmorke)
b)	Join W to Y and measure < XWY.
1	
il er	
	(O2marka)
	(02marks)

