## HILL SIDE PRIMARY SCHOOL – NAALYA P.7 EXAMINATIONS TERM II 2022 (SET I)

## MATHEMATICS

Time allowed: 2 Hours 30 Minutes

INDEX NUMBER								
Candidate's Name:							 	 
Candidate's Signature: Date:				 				
School's EMIS Number:								
District Name:								

## Read the following instructions carefully

- 1. The paper has two sections: A and B.
- 2. All the working for both sections A and B must be shown in the spaces

provided.

3. All working must be done using a blue or black ball – point pen or fountain

pen. Diagrams must be drawn in pencil.

- 4. Un necessary changes of work may lead to loss of marks.
- 5. Any handwriting that cannot easily be read may lead to loss of marks.
- 6. Do not fill anything in boxes indicated: "For Examiners' Use Only: and

those inside the question paper

SECTIONS	MARKS
SECTION A	
SECTION B	
TOTAL	

## **SECTION A: 40 MARKS**

1.	Work out: 34 x 3	2.	Write XCIX in Hindu Arabic numerals.
3.	Simplify: a <sup>6</sup> ÷ a <sup>3</sup>	4.	How many 1/4 kg packets of sugar can be got from 20kg?
5.	Find the square root of $1\frac{7}{9}$	6.	Find the size of angle y in the figure below.
7.	Musa deposited sh.400,000 in the bank that offers an interest rate of 5% per month for 1 <sup>1</sup> / <sub>2</sub> years. Find his interest.	8.	Change 20m/s to kilometers per hour.
9.	Convert 14 40hour to a 12 – hour clock system.	10.	Using a ruler and a pair of compasses only, construct an angle of 45 <sup>0</sup> .

11.	Express 34 <sub>five</sub> into binary base.	12.	A man bought a watch at sh.25,000 and later sold it at sh.30,000. Calculate his percentage profit.
13.	Work out: 2 – 5 = (mod 6)	14.	Find the smallest number of mangoes that can be divisible by 6 or 9 pupils and leaves 2 as a remainder.
15.	Calculate the range of -8 and -1.	16.	Solve: 3a – 6 = a + 4
17.	A lady had sh.27,000 in her bag. She spent $\frac{4}{9}$ on meat. How much money did she remain with?	18.	The circumference of a circle is 88m. find its radius (Take $\pi$ as $\frac{22}{7}$ )
19.	If 8 girls can take 5 days to do a piece of work. How many more days can 4 girls take to do the same piece of work?	20.	There are 31 proper subsets in set D. How many members can be got from set D?

SECTION B: 60 MARKS					
21.	In a class of 50 pupils, h like Posho(P),	22.	The figure below is a cuboid. Use it to		
	25 like rice		answer the questions that follow.		
	rice while 5 pupils do not like any of the		15cm		
	two types of food.				
	a) Complete the Venn diagram below.		10cm		
	(3mks)		20cm		
	n(Σ) = 50		a) How many litres of water can the		
	n(p) n(R)		figure above hold when it is		
			completely full? (2mks)		
	( ( 15) )				
	b) Find the value of h. (2mks)				
			b) Work out the total surface area of		
			the figure above. (2mks)		
	c) How many pupils do not like posho?				
	(1mk)				
23.	Two bells ring at the intervals of 30 minu	tes, 4	0 minutes respectively. If they rang		
	together at 10:50am,				
	a) After how long will the two bells ring together again? (3mks)				
	b) At what time will the two bells ring to	gethe	r again? (2mks)		

24.	a) Using a ruler and	d a pair of comp	asses only, o	construct a triang	le ABC in which	
	AB =7cm, AC=5	cm and angle BA	$AC = 120^{\circ}.$		(4mks)	
	b) Measure the line	BC.			(1mk)	
25.	The table below sho	ws the marks so	cored by pup	oils in a mathema	itics test.	
	Marks scored	80 70	90	60		
	Number of pupils	2 3	1	4		
	a) How many pupils sat for the test? (2mks)					
	b) Work out the mean score of their marks. (3mks)					
26.	Mary went to the market and bought the items as shown on the table below.					
	Item	Quantity	Unit pi	rice	Total cost	
	Sugar	kg	Sh.3,0	00per kg	Sh. 9,000	
	Meat	2kg	Sh. 10	,000 per kg	Sh	
	Milk	1 ½ litres	Sh	each litre	Sh. 4,500	
	Bread	3 loaves	Sh	@loaf	Sh. 13,500	
		Total expend	liture		Sh	
	a) Complete the tab	ole above.		(5marks)		



	b) Calculate the value of y.	(2mks)
	c) Work out the LCM of X and 30	(2mks)
30.	a) Solve: $2(2a + 4) - 2(a - 2) = 0$	(2mks)
	b) If $p = 3$ , $q = -4$ and $r = 2$ , find the value of $p$	<u>or – q</u> (2mks) P – q
31.	Moses, Timothy and Robert shared a certain amount respectively. If Robert got sh.60,000 more than M a) How much money did they share altogether?	unt of money in the ratio of 2:3:5 loses, (4mks)

