KAMPALA PARENTS' SCHOOL 2004 MOCK I EXAMINATION, 2021 MATHEMATICS - P.7

Time: 2hrs 30min

NAME:			INDEX.NO STREAM				
1.	SECTION A (40 MARKS) Divide: 404 by 4	6. W	/rite the next 5, 16, 9, 4, _	t number in the sequence.			
2.	Given that P = {a, b, c, d} and Q = {a, e, i, o, u}. Find n(P U Q). A scientist gave the distance of a satellite from the earth as 4.51×10^{5} km. How many km was this?	7. W	/hat is the be	earing of town K from P?			
4	Write CDXXXI in Hindu Arabic numerals	9. C	nange oð _{ten}	to Quinary base.			
4 . 5.	Convert 0.5m ² to cm ²	10. <u>V</u>	<u>Vork out:</u>	<u>0.24 x 0.3</u> 0.08			

- 11. Express 0.3636 as a simplified common fraction.
- 16. Find the size of angle marked P in the figure below.



12. The average age of 2 boys is 30 years. When their sister joins the group, their average age is 28 years. Find the age of the sister.

17. **Work out:** $(0.25 \times 10) + (0.5 \times 10)$

13. Work out the square root of the fourth composite number.

14. A mathematics Exam started at 10:50am and ended at 1:20pm, for how long was the exam?

15.Y% of shs. 3,500 is 7,000/=. What is the value of Y?

18. Kato is thrice as old as his sister. How old is the sister if the sum of their age is 28 years?

19. Mary deposited shs. 80,000 in a bank which gives a simple interest rate of 7% per year. Find her interest after 6 months.

20. <u>Work out</u>: ⁻3 - ⁻4

c) How long did the children rest after the Science Examination? (2mks)

SECTION B (60 MARKS)

- 21. Kiza spent $\frac{1}{3}$ of his salary of food, $\frac{1}{4}$ of the remainder on fees and saved $\frac{36,000}{=}$. Find his total income per month. (4mks)
- 23. A boat sailed due to East a distance of 50km from port A to B, it then sailed due to South a distance of 40km from port B to C.
 - a) Draw a sketch to show the route of the boat. (1mk)

22. Study the Examination timetable below and answer the question that follow.

Days	Subject	Starting	Ending	
		time	time	
Monday	Maths	9:00a.m	11:30a.m	
	SST	2:00p.m	4:15p.m	
Tuesday	Science	9:00a.m	11:30a.m	
	English	2:00p.m	4:15p.m	

a) Express the ending time of English Examination in a 24 hour clock. (1mk)

b) For how long did the Mathematics Examination last? (2mks) b) Using a scale of 1cm to 10km, construct an accurate diagram to show the route of the boat. (3mks) c) Find the shortest distance between port A and C. (1mk)

24. a) The temperature on top of a mountain at noon was 18°c and dropped down by 10°c at 3:00pm. What was the new temperature at 3:00pm? (2mks)

b) Solve and write the solution set for; $4q + 7 \le 27$ (3mks)

25. Given that; y = 3x + 1. Complete the table below. (showing the working) (5mks)

X-axis	0		3		5	6
Y-axis	1	7		13		

- 26. Of the 22 people who contested for presidency, y + 2 had senior four (S.4) certificates (B) only, y + 3 had Senior six certificates (A) only and y had all the two certificates, while two people had no certificates.
 - a) Complete the Venn diagram below.

(3mks)



b) Find the number of people who had all the certificates. (2mks)

27.Mr. Opio welded a tank in a form of a prism as shown below.



	a) Find the area of the face MNOP.	(2mks)	29. A m 10:3 a) Fi jc	otorist trav 30am cover nd the ave ourney?	relled from 8:00ar ring a distance of grage speed for th	n to 180km. e whole (2mks)
	b) Calculate the volume of the prisr	n above. (3mks)	b) E	xpress his s	speed in m/s.	(3mks)
28.	a) The interior angle of a regular p 100° more than the exterior angle. size of the exterior angle.	olygon is Find the (2mks)	30. Ciss part a) (Item Sugar Meat Rice Onions Spices	y went sho y with a lis Complete th Quantity 8kg 8kg 2½kg 2½kg 4kg 3kg	opping for her grad t of items as shown he table. Cost Per (kg) Shs.1,500 Shs.2,500 Shs.2,500 Shs.1,000	duation wn below. (5mks) Amount 20,000 2,500 4,500
	b) Name the polygon. (3mks)			Total	

b) If he spends shs. 36,000 on drinks, find (2mks) *** Good Luck! *** 6

31. The pie-chart below shows how Mr. Mukasa spends his salary.

b) She bought all items from one shop and was given a discount of 10%. How much

(1mk)

did she pay?

his salary.

- Drinks 600 Food 1100 У Rent Savings
- a) Find the value of y in degrees. (2mks)

32.a) Buzabo is twice as old as Merci and their total age is 33 years. How old is (2mks) Merci?

 $\frac{2}{3}$ (m - 2) = 12 b) <u>**Solve**</u>: (2mks)

c) Subtract 2k - 4 from 5k - 4. (1mk)

c) How much more money does he spend on rent than food? (1mk)