KIBUUKA MIXED PRIMARY SCHOOL - NANSANA

PRE – REGISTRATION EXAMINATION 2023 (SET 2)

PRIMARY SEVEN

MATHEMATICS

Time allowed: 2 hours 30 minutes

Index No. | | | | | | | | | |

Candidate's Name: _____

Candidate's Signature: _____

Stream: _____

Read the following instructions carefully:

1. The paper has **two** sections: **A** and **B**

2. Section **A** has 20 short questions (40 marks)

3. Section **B** has 12 questions (60 marks)

4. Answer **ALL** questions. All answers to both Sections A and B must be written in the spaces provided.

5. All answers must be written using a blue or black ball point pen or ink. Diagrams should be drawn in pencil.

6. Unnecessary alteration of work may 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.

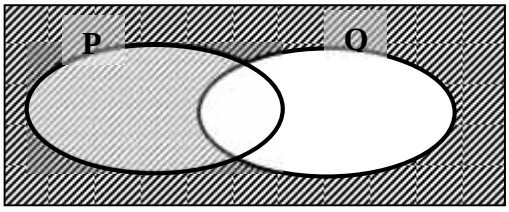
FOR EXAMINER'S USE ONLY

FOR EXAMINER'S USE ONLY		
Qn. No	**MARK**	**SIGN**
1 – 10		
11 – 20		
21 – 30		
31 – 32		
TOTAL		

Turn over

SECTION A:40 MARKS

Questions 1 to 20 carry two marks each

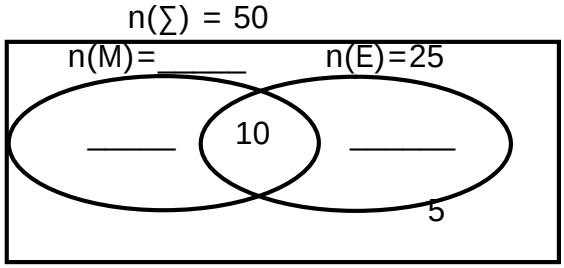
1.	Work out: 25 + 52	2.	Write in numerals: “Forty thousand, forty”.
3.	Simplify: 3a – 5a + 6a	4.	Work out: $^3/_4 \div {}^1/_8$
5.	In the Venn diagram below, describe the un-shaded part. 	6.	Calculate the complement of 66^0
7.	Given that a = -2 and b = 5. Find the value of $a^2 – ab$.	8.	Find the mode of 6, 8, 5, 3, 8, 9 and 8.
9.	Work out: Hrs Min 2 45 + 3 55	10.	Using a ruler, a pencil and a protractor only, draw an angle of 120^0.

11.	Today is Thursday. What day of the week will it be after 20 days?	12.	Express $^{3}/_{5}$ as a percentage.
13.	Change 13_{ten} into a binary base.	14.	Write 34500 in standard form.
15.	Arrange 2, -1, 3, 0, -4 and -3 in ascending order.	16.	Solve: $3p - 12 = 6$
17.	The cost of 4 exercise books is sh.3,600. Find the cost of six similar exercise books.	18.	Express 2.5km as metres.
19.	Find the LCM of 8 and 12.	20.	Half of Tracey's age now and a third of Prince's age now add up to 66 years. Prince is 18 years older than Tracey. How old is each of them now?

SECTION B: 60 MARKS

21. In a class of 50 pupils, "h" like Mathematics (M), 25 like English(E), 10 pupils like both subjects while 5 pupils do not like any of the two subjects.

a) Complete the Venn diagram below. (3mks)



b) Find the value of h. (2mks)

c) How many pupils like only one subject? (1mk)

22. a) Solve for p: 3(2p+2)-2(p-4)=22 (2mks)

b) Chris is 2 years younger than Ann and twice as old as Charles' age. If their total age 4 years ago was 15 years, how old is Chris now? (2mks)

23. The sum of 3 consecutive counting numbers is 93. Find the numbers. (4mks)

24. a) Using a ruler and a pair of compasses only, construct a rectangle PQRS in which PQ=8cm and QR=6cm. (3mks)

b) Measure the diagonal PR ..... (1mk)

25. The table below shows the marks scored by pupils in a mathematics test.

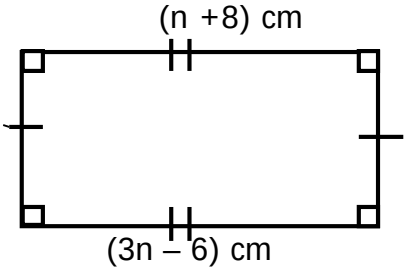
Marks scored	80	70	90	60
Number of pupils	2	3	1	4

a) How many pupils sat for the test? (2mks)

b) Find the mode. (1mk)

c) Calculate the mean mark. (2mks)

26. Study the diagram and use it to answer the questions that follow.



a) Find the value of n. (2 marks)

b) Work out the area of the figure. (2 marks)

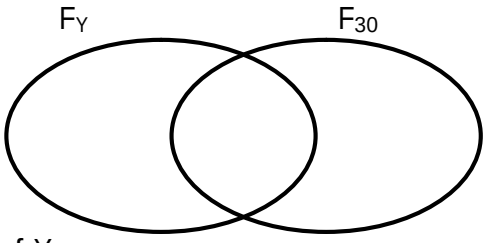
c) Calculate its perimeter. (2 marks)

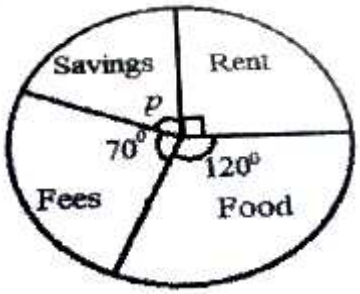
27. Mutoni went to the market and bought the items as shown on the table below.

Item	Quantity	Unit price	Total cost
Sugar	2kg	Sh.3500 per kg	Sh.....
Meat	..... kg	Sh. 8000 per kg	Sh.24,000
Milk	2	Sh. 1200 each litre	Sh.....
Bread	4 loaves	Sh..... @ loaf	Sh.8000
	Total expenditure		Sh.....

a) Complete the table below. (5 marks)

b) If she went with sh. 50,000, find her change. (1 mark)

28.	a) Work out: $\frac{0.24 + 1.2}{0.4 \times 0.3}$ (3 marks)
	b) Simplify: $^1/_4 \ -^1/_2 \ +^1/_3$ (2 marks)
29	Given that $F_{30} = \{2_1, 3_1, 5_1\}$ and $FY = \{2_1, 2_2, 3_1, 3_2\}$. Use this information to answer the questions that follow. a) Represent the above information on the Venn diagram below. (3 marks)  b) Find the value of Y. (2 marks) c) Workout the G.C.F of Y and 30. (1 mark)
30	John, Fatuma and Daniel shared a certain amount of money in the ratio of 2:5:3 respectively. If Daniel got sh. 90,000; a) How much money did they share altogether? (4 marks)

	b) How much more money did Fatuma get than John? (1 mark)
31	A motorist left Kampala for Jinja at 9:50 pm travelling at an average speed of 60 km/hr. He reached Jinja at 11:20 pm. a) How long did he take to travel from Kampala to Jinja? (2 marks) b) Calculate the distance between Kampala and Jinja. (2 marks)
32	The pie chart below shows Muzorewa's monthly expenditure. Use it to answer the questions that follow.  a) Find the value of p in degrees. (3 marks) b) If he spends sh. 280,000 on fees, find his monthly expenditure. (2 marks)

End