HILLSIDE PRIMARY SCHOOL-NAALYA
BEGINNING OF TERM THREE EXAMINATIONS
2023
MATHEMATICS (Set Eleven)
Time Allowed: 2 Hours 30 Minutes

Index No.

Candidate's Name... ....

Candidate's Signature...

EMIS No... Stream ....

District ....

Read the following instructions carefully:

1. The paper has **two** sections: **A** and **B**. Section **A** has 20 questions and section **B** has 12 questions. The paper has 12 pages altogether.

2. All 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 ink or fountain pen. Any work done in pencils other than graphs and diagrams will **not** be marked.

4. **No calculators** are allowed in the examination room.

5. Unnecessary alterations/changes of work may lead to **loss** of marks.

6. Any handwriting that cannot easily be read may lead to **loss** of marks.

7. Do **not** fill anything in boxes indicated: **"For Examiners' Use Only. "**

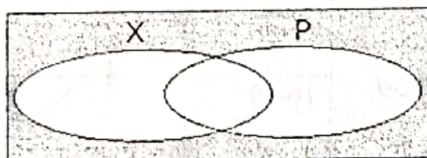| FOR EXAMINERS' USE ONLY		
Qn. No.	MARKS	EXRS' NO
1-5		
6-10		
11-15		
16-20		
21-22		
23-24		
25-26		
27-28		
29-30		
31-32		
TOTAL		

SECTION A: (40 marks)

1. Work out: 70 + 105

2. Write CXIX in words.

3. Work out: 72.72 ÷ 6

4. Describe the un-shaded part.

5. Find the average of the next **two** numbers in the sequence.

   1,   8,   27, ..., ...

6. Without extending the line, construct an angle of 90^0 at point R.

R

7. Using distributive property. Workout: 12 x 101

8. What is the **place value** of 2 in 123_{five}?

9. Solve: $2(3x - 2) = 14$

10. In a bundle of five thousand shilling notes are numbered MJ00040 to MJ00090. How much money is in the bundle?

11. Here are four measurements.

| 20cm | 1m | 30mm | 2.5cm |

Order the measurements from smallest to largest.

| | | | |

Smallest   Largest
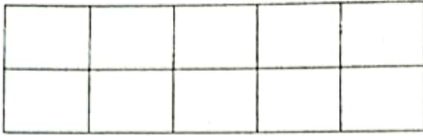
12. Work out: 3 + 2 = _____(finite 5)

13. The cost of a book is sh.800. Find the cost of a $\frac{1}{4}$ of a dozen.

14. Round off 3878 to the nearest hundreds

15. The average of 6 numbers is 66. If 75 and 89 are added to 6 numbers, what is the new average?

16. A thief broke into a house at 4 minutes past midnight. Express this time in 24clovk system.

17. Shade 40% of the figure below.

18. A bus travels first 240km at a speed of 80 km/hr. it covers next 360km at a speed of 72km/hr. What is its average speed?

19. Given that m = 6, find the value of $(6m - 2m)^2$

20. A glass holds 225 mililitres of water. Amanda drinks 1.8 litres of water during a day. How many glasses of water does she drink during the day?
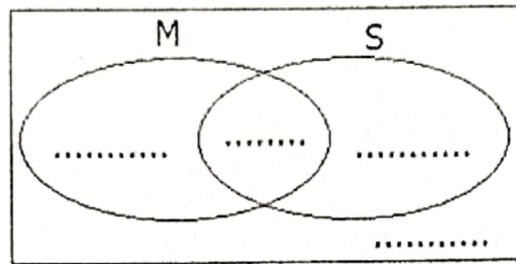
SECTION: B (60 marks)

21. There are 80 students in P.6. 9 students like SST and Math. 35 students like SST only and 2 students do not like SST or Science.

    a) Use the given information to complete the Venn diagram below.   (04 marks)

      $n(\varepsilon) = 80$

    b) Work out how many students like Math only.   (02 marks)

22. The bursar of a certain school in a district deposited sh.100,000 in a bank which offers an interest rate of 10% per annum. The money was in the bank for 18 months. How much money was on the school's account ta the end of 18 moths?   (05 marks)

CamScanner

23. Work out: $\dfrac{3.6 + 1.2}{2.4 - 1.2}$ (04 marks)

24. A boy drives and covers 350km in 5 hours.
    a) What distance does he cover in 6 hours and 12min? (03 marks)
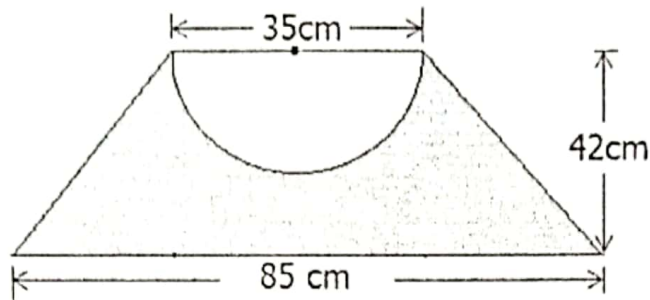
    b) Calculate the time he takes to cover 1200metres. (02 marks)

25. The sum of three consecutive odd numbers is 105. Find the largest number (04 marks)

26. a) Using a ruler and a pair of compasses only, construct a rhombus ABCD whose diagonals are 8cm and 6cm. (05 marks)
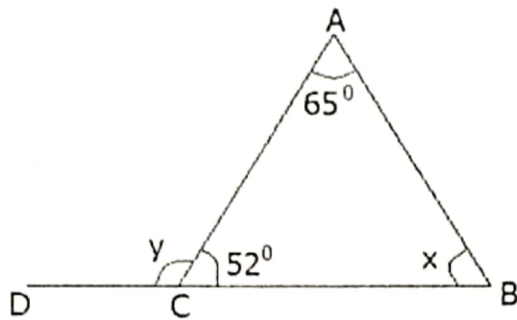
   b) Measure length AB. (01 mark)

27. Find the area of shaded part of the geometric figure below. (Use $\pi = \frac{22}{7}$)
(05 marks)

28. At the school canteen, the cost of a math book is 5 times the cost of a science book. If a man buys 5 science books and 3 math books and pays sh.30,000, find the cost of a science and math book. (05 marks)

29. In the figure below, angle BAC = 65^0, angle ACB = 52^0. Study the figure and use it to answer the questions that follow.

Find the size of angle.

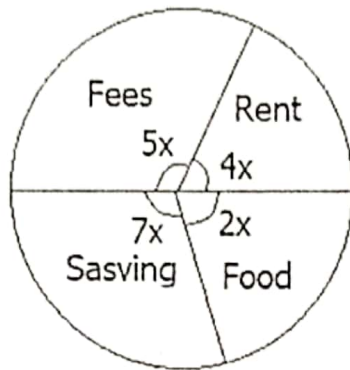i) x   (03 marks)

ii) y   (02 marks)

30. The pie chart below shows how Mudebo spends his monthly income.

a) Find the value of x in degrees.   (02 marks)

b) If he spnds sh.240,000 on rent, calculate his monthly income.
                                                      (02 marks)

31. a) Solve: $3(t - 3) = 5(2t + 1)$ (03 marks)

b) Workout: $\dfrac{x - 5}{3} = \dfrac{x - 8}{5}$ (03 marks)

32. Nakuya moved from town M to town N on a bearing of 130^0 which is 60km away. She later went to town K which is 50km away from town N on a bearing 060^0.

a) Draw a sketch diagram showing three towns. (01 marks)

b) Using a scale of 1cm to represent 10km, draw an accurate diagram showing three towns. (03 marks)

c) Find the shortest distance between town M and town K. (01 mark)

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END

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