**SIR APOLLO**

**END OF TERM III EXAMINATION 2023**

**P.6 MATHEMATICS**

***Time Allowed: 2hours 30 Minutes***

**Pupil’s Name: …………………………….……………………………………**

**Class: ………………………………………..……………………………………**

**School Name: ……………………………………….……………………….**

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| **FOR EXAMINERS’**  USE ONLY | | |
| **Qn. No.** | **MARKS** | **EXR’S**  **No.** |
| **1 - 10** |  |  |
| **11 – 20** |  |  |
| **21 – 30** |  |  |
| **31 – 32** |  |  |
| **TOTAL** |  |  |

**Read the following instructions carefully:**

1. This 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 allquestions. All the working for both sections A and B must be shown in the spaces provided.
5. All working must be done using a blueor blackball point pen or ink. Any work done in pencil will NOTbe marked except drawings and diagram.
6. Unnecessary changes in your work and handwriting that cannot be easily read may lead to loss of marks.
7. Do not fill anything in the table indicated

**Turn Over**

**“For examiners’ use only”**and the boxes inside the question paper.

**SECTION : A. (40 Marks).**

|  |  |  |  |
| --- | --- | --- | --- |
|  | Add : 86 + 13. |  | If a = 4 and b = 3.Find (a+b) x (a – b) |
|  | Work out : +9 - +12. |  | Study the diagram below and find the value of K. |
|  | How many a quarter litre bottles are in a twenty litre bucket? |  | Work out : 1 1 0 two  - 1 1 two |
|  | Write 16 in Roman numerals. |  | In the figure below, find the value of n. |
|  | Solve: y - 3 = 7. |  | The cost of 6 pens is sh. 1800. How many  pens will Nambozo buy with sh. 2400? |
|  | The LCM of two numbers is 50 and their  GCF is 5. If one of the numbers is 25,  What is the other number? |  | Using a **protractor** and sharp pencil, draw an angle of 600 in the space provided below. |
|  | Add: 2 6 7 1  + 4 3 9 8 |  | Which numbers has been expanded to give.  (8 x 103) + (2 x 101) + (5 x 10 – 1)? |
|  | Find the area of the rectangle below. |  | How many lines of folding symmetry does the figure below have? |
|  | Find the mean of 4, 2, -3, 1 and 6 |  | Oketch covered 30 metres in one second. Express his speed in km/hr. |
|  | If today is Tuesday, what day of the week will it be 17 days from now? |  | Simplify : 0. 4 x 0.3  0.2 |
| **SECTION B: 60 MARKS** | | | |
|  | In a class of 60 pupils, 24 pupils like Mathematics (M), t pupils like English (E) only and 8 pupils like both subjects while 3 pupils like neither as shown in the Venn diagram below.     1. Complete the Venn diagram above.   (3mks)  b) Find the value of t. (2mks)  c) How many pupils like English?  (1mk) |  | a) Work out : 1 - 3 + 2  2 4 3  (2mks)  b) Simplify : 2.3 + 1. 7  0. 02 (2mks) |
|  | a) Amooti was facing North, he turned clockwise to face South East. What angle did she make? (2mks)  b) The volume of a box below is 60cm3, its length is 5cm and width 4cm. Find the height (h). (3mks) | | |
|  | a) Work out the mean of 5p, 3, 9 and  7p + 4. (2mks)  b) Use the figure below to find the marked angles.    i) angle x. (1mk)  ii) angle y. (2mk) |  | Jamil went to Mbale shoppers Supermarket  with a fifty thousand shillings note and  bought the following items.  2 ½ kg of sugar at shs. 2000 per kg  3 loaves of bread at shs. 10,500.  250gms of salt at shs. 1,000 per kg  4 litres of cooking oil at shs. 2400 per litre.  a) How much did he pay altogether?  (5mks)  b) What change was he given? (1mk) |
|  | a)Given that 203x = 53 ten. Find base X. (2mks)  b) Work out: 3y - 2 = 4 (finite 8)  (2mks) |  | Study the factor set below and use it to  answer the questions that follow.    i) Find the value of x. (1mk)  ii) Find the value of y . (2mks)  iii) Calculate the L.C.M of 12 and x.  (2mks) |
|  | a) Using a sharp pencil, a ruler and a pair of compasses only, construct triangle PQR in which PQR = 6cm, angle P= 600 and PR = 5cm. (4mks)    b) Measure the size of angle PQ in degrees. (1mk) | | |
|  | Mr. Tembo bought a piece of land measuring 30 meters by 60 meters.  a) What was its area? (2mks)  b) If he planted poles around it at an interval of 3 metres. How many poles were planted?  (2mks) | | |
|  | a) Calculate the volume of the cylinder below. (2mks)    b) Write down the mathematical statement shown on the number line below. (2mks)  c) Convert 2:08pm to the 24hour clock system. (2mks) | | |
|  | The figure below is a rectangle. Use it to answer the questions that follow.    a) Find the value of P. (2mks)  b) Calculate the perimeter of the rectangle (4mks) | | |
|  | a) Find the area of the trapezium below. (2mks)    b) Given that 2x x 22 = 8. Find the value of x. (2mks)  c) If a= -3 and b= 5. Work out the value of a2 + ab. (2mks) | | |

**END**