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**UGANDA NATIONAL EXAMINATIONS BOARD**

**(ANWAR DAYCARE AND PRIMARY SEVEN MOCK EXAMINATIONS)**

**WAKISO DISTRICT 2024**

**MATHEMATIC**

***Time Allowed: 2 Hours 15Minutes***

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Random No.** | | | | | | **Personal No.** | | |
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**Index No.**

**Candidates Name: …………………………………………………………………………………………………………….**

**Candidates’ Signature: ……………………………………………………………………………………………………….**

**School Random No: …………………………………………………………………………………….…………………….**

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| --- | --- | --- |
| **FOR EXAMINERS’**  **USE ONLY** | | |
| **QN. NO.** | **MARKS** | **EXR’S NO** |
| 1 - 5 |  |  |
| 6 - 10 |  |  |
| 11 - 15 |  |  |
| 16 – 20 |  |  |
| 21 – 22 |  |  |
| 23 – 24 |  |  |
| 25 – 26 |  |  |
| 27 – 28 |  |  |
| 29 – 30 |  |  |
| 31 – 32 |  |  |
| **TOTAL** |  |  |

**Read the following instructions carefully:**

**1. Do not write your school or district name anywhere on this paper.**

**2. This paper has two sections A and B. Section A has**

**20 questions and section B has 12 questions. This paper**

**has 12 pages printed altogether.**

**3. Answer all questions. All the working for both sections**

**A and B must be shown in the spaces provided.**

**4. All working must be done using a blue or black ball point pen or ink**

**. Any work done in pencil other than graphs and diagrams**

**will NOT be marked.**

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

**6. Unnecessary changes in your work and handwriting that cannot**

**be easily ready may lead to loss of marks.**

**7. Do not fill anything in the box indicated:**

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

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**SECTION A:**

1. Write “230,406” in words.
2. Express 49 in Roman numerals.
3. Work out 
4. In the figure below, find the value of n.

**n**

**(3n + 200)**

**(3n + 200)**

1. Express 43ten in binary base.
2. If set P = {1, 4, 5, 7, 8} How many subsets has set P?
3. A fence is 4.5km long. What length is it in metres?
4. The Venn diagram below represents a group of children who play either football (F) or volleyball (V). How many children play volley ball.

**6**

**F**

**V**

**9**

**4**

1. Find the next number in the series 5, 5, 6, 8, 11, 15,\_\_\_\_
2. Simplify (4x – 2) -2(1 +3x)
3. The mean age of 3 boys is 11 years. Two of the boys have 11 and 13 years. What is the age of the third boy?
4. In the space below, with the help of a ruler and a pair of compasses, construct an angle of 450.
5. Given that a = 5, b = -3, find the value of a – ab.
6. Kamanya covered 300km in 2 ½ hours. Find his speed.
7. Solve: - 4 = 15 x 2 + *x*
8. Okurut deposited 160,000/= in a Stanbic bank at an interest rate of 10% per year. What interest will he get on his account after 2 ½ years?
9. Solve: -3a + 7 < 1 and write the solution set.
10. In the figure below is a Rhombus with diagonals AC = 12cm and DB =16cm. Find the length of one side of the Rhombus.

**D**

**A**

**B**

**C**

1. The figure below is a tank full of water. How many litres of water are in the tank?

70cm

**40cm**

1. Find the least number which can be divided by 10 or 12 of 15 without a remainder.

**SECTION B**

1. (a) Solve 3y - ½ y =5

(b) A father is three times as old as his son. The difference between their ages is 30 years.

(i) How old is the son?

(ii) Find the father’s age.

1. The frequency table below shows the weights of boys in a P.6 class at Atim Primary school. Study it carefully and answer the questions that follow.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Weight in kgs** | 25 | 30 | 20 | 15 | 35 |
| **Number of boys** | 2 | 1 | 3 | 4 | 5 |

1. Find the number of boys in the class.
2. What is their total weight ?
3. What is the range of their weight?
4. Calculate the mean weight per boy.
5. Below is a rectangular plot of land.

**(x +3)m**

**(2x +5)m**

**(5x – 7)m**

Find the distance around the plot of land.

1. (a) The price of a bag of sugar was increased from 50,000/= to

shs.72, 000/=. Find the percentage increase.

(b) Nafunga a shopkeeper bought a dress and later sold it at sh.49, 500

Making a loss of 10%. How much had she paid for the dress?

1. Okulo went to the supermarket and made the following expenditure.

15 books at shs. 2000/= per book.

4 kg of meat at shs. 10,000/= a kg.

7 bars of soap at shs.3800/= a bar.

9 brooms at shs. 18,000/=.

What was his total bill?

1. The figure below is an isosceles triangle PQR in which PQ = QR, PR = 4x and

**Q**

**4x**

**(200 + 2x)**

QRP= 200 + 2x.

**R**

**P**

1. Find the value of x.
2. Calculate the size of angle PQR in degrees.
3. Ssendi packs cylindrical tins whose height is 10cm and diameter is 5cm in a rectangular box (carton). If the carton measures 60cm long by 20cm wide by 30cm high.
4. How many tins will be packed in the cartons?
5. Find the space (in cm3) that will remain after the tins have been packed in the carton.(Take π 3.14)
6. In a P.7 class of 55 pupils, 25 of them passed Maths (M), 35 of them passed English (E), 10 passed both subjects and 5 failed both subjects.

Complete the Venn diagram below.

**E**

**M**

N(ع) = 55

1. Find the number of pupils who passed only one subject.
2. If a child is picked at random to be a prefect, what is the probability that the one picked passed Maths only?
3. (a) Using a pair of a compasses a sharp pencil and a ruler only, construct triangle ABC in which AB = 6.4cm CAB = 900 and AC = 3.6cm.
4. Measure BC.
5. Measure CBA
6. Below is a cylindrical piece of hollow wood. (π = 3 )

**21cm**

**10cm**

**8cm**

1. Find the volume of material removed to drill the hollow.
2. Find the volume of the wooden cylinder left.
3. At a party, Ocom, Muleera and Kibanda contributed some money in a ratio 4:2:6 respectively. If Kibanda contributed shs. 48,000/=
4. What was their total contribution?
5. What was Ocom’s contribution?
6. The travel graph below shows the journey of a motorist from town A through B to C and back to A.



**C**

**B**

12:00 noon

DISTANCE IN KM

4:00p.m

3:00p.m

2:00p.m

1:00 p.m

10:00a.m

9:00a.m

11:00a.m

**A**

80

60

0

140

120

100

40

20





**TIME IN HOURS**

1. What is the speed of the motorist from A to B?
2. For how long did he rest at town C?
3. Calculate the average speed of the motorist for the whole journey?