

**OUTREACH SCHOOLS EXAMINATIONS BOARD**

**BEGINNING OF TERM III EXAMINATION 2024**

**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 all questions. All the working for both sections A and B must be shown in the spaces provided.
5. All working must be done using a blue or blackball point pen or ink. Any work done in pencil will NOT be 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

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

**Turn Over**

**SECTION A: 40 MARKS**

|  |  |  |  |
| --- | --- | --- | --- |
| 1. | Add: **40 + 401** | 2. | Divide **5 by 1/5** |
| 3. | What is the next number in the sequence?  **2, 3, 5, 7, \_\_\_\_\_\_** | 4. | Work out **46.3 – 7+2.2** |
| 5. | Simplify **2a+b+4b-a** | 6. | Shade set A  A B |
| 7. | A man had **743** goats, he sold **30** of them. How many goats did he remain with? | 8. | Write **4,316** in expanded form using powers of ten. |
| 9. | Write **63,257** in words? | 10. | Set **A = {1, 2, 3}** and  **B = {a, b, c}** what special name is given to the above sets. |
| 11. | **y ÷6= 24** Find the value of **y** | 12. | Write **CXLIV** in Hindu Arabic |
| 13. | What is the place value of 6 in the number **26,413**? | 14. | What is the unshaded fraction?   |  |  |  |  | | --- | --- | --- | --- | |  |  |  |  | |
| 15. | Express **(4 x 1000) x (5 x 100) x (3 x 1)** in short form. | 16. | Write **46** in Roman numerals |
| 17. | work out **0.7 x 0.6**   |  | | --- | | **0.3** | | 18. | Multiply 4 2 3  x 1 5 |
| 19. | A bunch of matooke costs shs. 25,000/= How much can one pay for 4 similar bunches? | 20. | **5** girls can peel a sack of matooke in **8** hours. How long will **10** girls take to peel the same matooke? |

**SECTION B:**

|  |  |
| --- | --- |
| 21. | In a class of 60 pupils, 35 play Football (F), 28 play Volleyball (V). Y Pupils play both Football and Volleyball and 2 pupils do not play any of the two games.  a) Represent the above information on the Venn diagram below.    b) How many children play both football and volleyball?  c) How many children play only one game? |
| 22. | Workout 2 x 3 using the number line below.      b) What is additive inverse of -16? |
| 23. | Use the number 4625 to answer questions that follow.  a) Find the value of 4 and 2 in the above number.  b) Write the above number in expanded form.  c) What is the place value of 6 in the above number? |
| 24. | Use the magic square below to answer questions that follow.    a) Find the value of:  p =  q =  r = |
| 25. | Use the figure below to answer the questions that follow.    a) Find the value of x.  b) Find the actual length and width.  c) Find the area of the figure. |
| 26. | Mukisa borrowed shs**. 700,000/=** from Pride Micro Finance at an interest rate of **10%** per year.  a). Calculate his simple interest if the money was used for **2 years**.  b). Find the amount of money he paid in the bank altogether? |
| 27. | Complete the table below;   |  |  |  |  | | --- | --- | --- | --- | | **Item** | **Quantity** | **Unit cost** | **Total** | | Sugar | 3 kg | 3,000/= | …………….. | | Cooking oil | ………………… | 2,500/= | 10,000/= | | salt | 500g | 2,000/= @ kg | …………….. | | Bread | 3 | 4,000/= | …………….. | | **TOTAL** | | | ………………. |   b). Calculate the change if **50,000/=** was taken for shopping? |
| 28. | A cyclist covered a distance of **50 km** at a speed of **10km/hr.**  a). Calculate the time taken?  b). Convert the distance covered in metres?  c)If he had started the journey at **8:00am,** at what time did he complete it? |
| 29. | 29. Study the pie chart below and answer the questions that follow  a). Find the value of Y  food  b). If the above graph shows Racheal’s expenditure in a month, How much was spent on school fees if at all the total income was **300,000/=?** |
| 30. | 30. Complete the table below. (4 marks)   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **Number of weeks** | 1 | 3 | \_\_\_\_\_\_\_\_ | 7 | | **Number of days** | 7 | \_\_\_\_\_\_\_\_ | 28 | \_\_\_\_\_\_\_\_\_ |   b) Add: |

|  |  |
| --- | --- |
| 31. | Given that K = 2, P = 4 and Q = 5.  a) Find the value of KPQ.  b) Workout: |
| 32. | Study the venn diagram below and answer the questions that follow  F30 F50    31 21 x  51  (a) Find the value of;  a) x  (b) Calculate the **LCM** of **30** and **50**  (c) Find the **GCF** of **30** and **50** |

***“GOOD LUCK”***