

**OUTREACH SCHOOLS EXAMINATIONS BOARD**

**MID TERM II 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. | | Workout: 83 + 16 | | 2. | Given that a = -3 and b=5. Find the value of a2 + 5. |
| 3. | | Write “Two thousand eight hundred five” in figures. | | 4. | Change 213five to base ten. |
| 5. | | Round off 31.78 to the nearest tenths. | | 6. | Given that n(P) = 4. How subsets are in set P. |
| 7. | Workout:  – | | | 8. | Use a number line below to workout: -4 + -3.  -8 -7 -6 -5 -4 -3 -2 -1 0 +1 +2 +3 |
| 9. | A 40 minute lesson ended at 9:30a.m. At what time did it start? | | | 10. | When a dice is rolled once, what is the probability of a square number showing up? |
| 11. | Calculate the value of letter M below.  2m m | | | 12. | The area of a square room is 36m2. Find the length of each side. |
| 13. | If represents 16 tomatoes. How many pictures are in 64 tomatoes? | | | 14. | Expand 41.57 using exponents. |
| 15. | | The LCM of two numbers is 180 and their GCF is 30. If the first number is 60. Find the second number. | | 16. | Teddy bought 8 oranges at sh. 3200. How much will 5 similar oranges cost? |
| 17. | | Solve: 3x ÷ 32 = 27 | | 18. | Which number is divisible by 3?   1. 59 b) 144 c) 92 |
| 19. | | If Today is Wednesday, what day of the week will it be after 36 days? | | 20. | A man bought 3kg of rice. He added 4.5 kg the following day. Find the total number of grams he bought? |
| **SECTION B: 60 MARKS** | | | | | |
| 21. | | Given 82435.   1. What is the place value of four in the number? (1mark) 2. Calculate the sum of the values of 7 and 3 in 87435? (3marks) | | | |
| 22. | | Kitu went to the market with a 20,000 shilling note and bought;  3kg of rice at sh.3000 a kg.  1 ½ kg of sugar at sh. 6000.  500ml of cooking oil at sh. 2400 per litre.   1. Calculate Kitu’s total expenditure. (3marks) 2. What was Kitu’s change? (2marks) | | | |
| 23. | | Use the number line below to answer the given questions.  **a**  **b**  -8 -7 -6 -5 -4 -3 -2 -1 0 +1 +2 +3 +4+5  c   1. Write the value of; (1mark each) 2. a = \_\_\_\_\_\_\_\_\_\_\_\_\_\_ 3. b = \_\_\_\_\_\_\_\_\_\_\_\_\_\_ 4. c = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 5. Write down the mathematical statement shown above. (2marks) | | | |
| 24. | | Study the rectangle below and use it to answer questions that follow.  (4n-4)cm  (2n +1)cm  12cm   1. Find the value of X. (2marks) 2. Calculate its area. (3marks) | | | |
| 25. | | a) A lesson started at 8:30a.m and ended at 10:10a.m. How long did it take? (2marks)  b) A bus travelling at 60km/hr for 3hrs moved from town A to B. Find the distance from A to B. (2marks) | | | |
| 26. | | At Nkokonjeru P/s two bells are rung at intervals of 30 minutes and 40 minutes respectively.   1. After how long will they ring together? (3marks) 2. If they were rung together at 10:00a.m. At what time will they ring together again? (3marks) | | | |
| 27. | | | In a class of 50 pupils, 30 pupils like Soda (S), 25 pupils like Juice (J) and 4 pupils do not like any of the drinks. If x pupils like both drinks.   1. Show the information in a venn diagram. (2marks)   n(∑)=50  n(S)=\_\_\_ n(J)= \_\_\_  \_\_\_\_ x \_\_\_\_  4   1. Find the value of x. (2marks) 2. How many pupils like only one drink? (1mark) | | |
| 28. | | a) Workout:  – +  (2marks)  b) In a class of 60 pupils  of them are boys. Find the number of girls in the class. (3marks) | | | |
| 29. | | a) Workout: 2 1 2three (2marks)  + 2 1three  b) If 23n = 15ten. Find the value of letter n. (3marks) | | | |
| 30. | | | Otim scored the following marks in beginning of term II exams;  80, 55, 70, 45, 70.   1. Find the range mark. (2marks) 2. What is the median mark? (1mark) 3. Calculate the mean mark. (3marks) | | |
| 31. | | | a) Using a ruler, a pencil and a pair of compasses only. Construct a regular hexagon in a circle of radius 4cm. (3marks)  b) Calculate its perimeter. (2marks) | | |
| 32. | | | a) Find the area of the shaded figure. (2marks)  A    13m  9m 10m      D 8m D 12m B  b) The perimeter of a rectangular garden is 40cm. If the width is 8cm.  Find the length. (3marks) | | |

***“GOOD LUCK”***