SUMMIT NURSERY & PRIMARY SCHOOL

MID TERM I EXAMINATIONS 2022

PRIMARY SIX

**MATHEMATICS**

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Stream: \_\_\_\_\_\_\_\_\_\_\_\_\_\_

Campus: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Read the following instructions carefully:**

* Answer all questions.
* All answers must be written in the spaces provided.
* Use a neat handwriting.
* Calculators are not allowed in the examination room.

**SECTION ‘A’ (40 Marks)**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1. | Multiply: | | | 2. | | | | Write **3,024** in words. | |
| 3. | On the venn diagram below, shade set **B** only. | | | 4. | | | | Find the next number in the sequence,  4, 6, 9, 11, 14, \_\_\_\_\_\_\_\_\_ | |
| 5. | What number has been expanded?  (4x103) + (7x102) + (3x100)? | | | 6. | | | | If **a = 2** and **b = 3**, find the value of **a + b**. | |
| 7. | Express **34 in Roman** numerals. | | | 8. | | | | Add:  **+** | |
| 9. | Solve:  **M + 7 = 21.** | | | 10. | | | | Given that  = 2 girls and  = 3 boys, how many pupils are represented below? | |
| 11 | Construct a line segment **AB** of length **5cm** in the space provided below. | | | | | | | | |
| 12. | Shade of the diagram below. | | | 13. | | | | A bus **60** passengers per trip. How many trips does it make to carry **180** passengers? | |
| 14. | A church service which took 1 hour and 45 minutes ended at 12:00 noon. When did it begin? | | | 15. | | | | A farmer bought a goat at shs. 105,000 and sold it at a loss of shs. 11,000. How much did he sell the goat? | |
| 16. | Show a half past 8 o’clock on the clock face below. | | | | | | | | |
| 17. | Given that set **K** = {4, 2, 1}. Find the number of subsets in set **K.** | | | | | | | | |
| 18. | A boy scored the following marks;  50, 30, 90, 30, 80, 20.  Find the range of his marks. | | | 19. | | | | Change **4km** to metres. | |
| 20. | Round off **356** to the nearest tens. | | | | | | | | |
| **SECTION ‘B’ (60 MARKS)** | | | | | | | | | |
| 21 | | Set **Q** = { 1, 2, 3, 4, 5, 6 } and  set **P** = { all even numbers less than 10} | | | | | | | |
| a) | | List the elements of set **P.**  ***(2mks)*** | | b) | | | | Represent the sets on the venn diagram below. ***(3mks)*** | |
| 22 | | Expand **2984** using values. ***(2mks)*** | | | | | | | |
| b) | | Find the sum of the value of **8** and place value of **2** in **(a)** above.  ***(3mks)*** | | | | | | | |
| 23) | | In a class of 20 pupils, of them are boys and the rest are girls. | | | | | | | |
| a) | | Find the fraction of girls in the class. ***(1mk)*** | | | | | | | |
| b) | | How many boys are in the class? ***(2mks)*** | | c) | | | | Find the number of girls in the class. ***(2mks)*** | |
| 24a) | | By the help of a ruler, a sharp pencil and a pair of compasses only, construct a square of sides 4cm. ***(4mks)*** | | | | | | | |
| b) | | Workout the perimeter of the above square. | | | | | | | |
| 25a | | Sutract: ( ***2mks)*** | | b | | | | Express **35ten** as base **five**.  ***(2mks)*** | |
| 26. | | A girl was given cards numbered 6, 0, and 2 to form a three digit numeral. | | | | | | | |
| a. | | List down all the three digit numbers that can be formed using the above digits.  ***(4mks)*** | | b. | | | | Show the smallest three digit number formed on the abacus.  ***(2mks)*** | |
| 27. | | Study the figure below and answer the questions that follow. | | | | | | | |
| a. | | Find the area of the inner figure. **(*2mks)*** | | b. | | | Find the area of the outer figure.  (***2mks)*** | | |
| c | | Workout the area of the shaded part. ***(1mk)*** | | | | | | | |
| 28. | | Use the number-line below the answer the questions that follow. | | | | | | | |
|  | |  | | | | | | | |
| a) | | Give the value of the integers represented by letters;  (***1mk @)***   1. P = \_\_\_\_\_\_\_\_\_\_\_\_\_\_ 2. Q = \_\_\_\_\_\_\_\_\_\_\_\_\_\_ 3. R = \_\_\_\_\_\_\_\_\_\_\_\_\_\_ | |  | b) | | | | Write the mathematical additional statement for the arrows shown on the number-line. ***(2mks)*** | |
| 29. | | Given that **b = 6, c = 4** and  **d = 3.** Find the value of;   1. **b + c + d *(1mk)*** | | | | | | | | |
| b) | |  | |  | c) | | | | **bc – d**. ***(2mks)*** | |
| 30. | | Alex went to the market and bought the following items.   * 2kg of sugar at shs. 3000 per kg. * 3 litres of cooking oil at shs. 4000 per litre. * 3000g of meat at shs. 33000. | | | | | | | |
| a | | Calculate Alex’s total expenditure. (***3 marks)*** | | b | | | | If Alex had shs. 52000, how much money did he remain with? (***2mks)*** | |
| 31 | | Study the information below carefully and use it to answer the questions that follow.     1. Find the value of **x.** *(****2mks)*** | | | | | | | |
| b) | | Find the GCF of F**12** and **Fx**.  ***(1mk)*** | | c) | | | | Workout the LCM of F**12** and **Fx.**  ***(2mks)*** | |
| 32. | | The venn diagram below shows prime factors of M and N. | | | | | | | |
| a) | | Find the value of;  ***Each 1 mark.***   1. M = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 2. N = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | | | | | | | |
| b) | | Find the **LCM** of M and N.  ***2mks*** | c) | | | Workout the **GCF** of M and N.  ***1mk.*** | | | |

***E N D***