**MID TERM II EXAMINATION -2022**

**MATHEMATICS**

**PRIMARY SIX**

***Time allowed: 2 Hours 30 Minutes***

***Name:…………………………………………………….…..…... Stream :…………..…..…***

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| **FOR EXAMINERS’ USE ONLY** | | | | |
| **QN. NO** | | **MARK** | | **SIGN** |
| **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. This paper has **two** Sections: **A** and **B**.
2. Section **A**, has **20** short answer questions (40 marks)
3. Section **B** has **12** questions (60 marks).
4. Answer **ALL** questions. All answers to both Sections **A** and **B** must be written in spaces provided.
5. All answers must be written using a blue or black ballpoint pen or ink. Diagrams should be drawn in pencil.
6. Unnecessary alteration of work will lead to loss of marks.
7. Any handwriting that cannot be easily read, may lead to loss of marks.
8. Do not fill anything in the box indicated forexaminer’s use only.

**A**

**B**

**TOTAL**

**SECTION: A (40marks)**

1. Workout: 2  3

2. How many subsets are in a set with 5 elements?

3. Find the value of P in the diagram below.

**(P + 30)°**

**20°**

4. Change  minutes to seconds.

5. Arrange the following integers in a descending order.

**+**6, **-**3, **+**1, 0, **-**6

6. Using a ruler, a sharp pencil and a pair of compasses only

construct an angle of 45° in the space below.

7. Write 2020 in words.

8. Increase 120kg in the ratio of 5:4.

9. Using the formular , find the 12th triangular number.

10. If ₤1 costs Ugsh. 4,800, how much money in Uganda shillings

will Mose get from 50 pound sterling?

11. Solve for y: 4y 3 = 27

12. Change 79ten to base four.

13. The perimeter of the figure below is 48m. Workout its length

in metres.

10m

14. Add 

15. Find the difference between the next two numbers in the

sequence.

1, 3, 7, 13, 21, \_\_\_\_\_\_\_, \_\_\_\_\_\_

16. Workout the average of 9, 15, 11, 13 and 7

17. James is 15years older than Hafunjo who is now 58years

old. How old is James now in Roman numerals?

18. Grace a P.1 child was given a chart having the following

numbers to count; ( 1, 2, 3, 4, 5, 6, 7, 8, 9)

What is the probability of picking at random a prime number?

19. Today is Thursday. What day of the week will it be after

28days from today?

20. The LCM of two numbers is 72 and the GCF is 12. If the

second number is 36, find the other number.

**SECTION B (60 marks)**

21. In a class of 60 pupils, 33 of them like Mathematics (M), 39

like English (E), K pupils like both English and Mathematics

while 9 pupils like neither English nor Mathematics.

(a) Complete the venn diagram below correctly. (**3marks**)

n(M)=33 n(E)=39

K

(b) Find the value of K. (**2marks**)

22(a) Change 143five to base three (**3marks**)

(b) Given that 23p = 13ten, find the value of P. (**2marks**)

(c) What is the value of 2 in 231four? (**1mark**)

23. Given the digits 3, 2, 5 and 7.

(a) Form any three even numbers using all the digits

above. (**3marks**)

(b) Round off the smallest 4-digit even number to the

nearest hundreds. (**2marks**)

24. Find the unknowns (**2marks each**)

(a)

**2m**

**3m**

(b)

2y

(c) 2 and  are supplementary angles. Find the value

of .

25. Study the bill table below and complete it correctly.(**4marks**)

|  |  |  |  |
| --- | --- | --- | --- |
| **Item** | **Quantity** | **Unit cost** | **Amount** |
| Sugar | 5kg | Sh.3,000 | Sh. ............. |
| Beans | 3kg | Sh.................. | Sh.7,200 |
| Omo | ............sackets | Sh. 500 | Sh. 3,000 |
| **Total expenditure** | | | **Sh. ...........** |

(b) If Musoke had Sh. 50,000, workout the change he

remained with. (**1mark**)

26. Use the number line below and answer the questions that

follow.

**b**

**a**

-6 -5 -4 -3 -2 -1 0 +1 +2 +3 +4 +5 +6

**c**

(a) Write the value of (**1mark each**)

(i) a = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

(ii) b = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

(iii) c = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

(b) Write a subtraction mathematical sentences represented

on the number line above. (**1marks**)

27(a) Workout : (**2marks**)

(b) Express 0.2121...........as a common fraction in its

simplest form.(**2marks**)

28. The sum of three consecutive even numbers is 48. If the

second number is m.

(a) Find the value of m. (**2marks**)

(b) Workout their range. (**2marks**)

29. At Mbulamuti Primary school, two bells ring at intervals of

30 minutes and 40minutes for lower and upper primary

classes respectively.

(a) After how many minutes will the two bells ring together?

(**2marks**)

(b) If they rung together at 9.30a.m, when will the two bells

ring together again?(**3marks**)

30. (a) Using a ruler, a sharp pencil and a pair of compasses

only, construct rectangle PQRS in which line PQ = 7cm

and QR = 4cm.(**3marks**)

(b) Workout that total distance round the given figure.

(**2marks**)

31. The Headmistress Namagunga Primary Boarding School

bought 600cakes which she shared among the three streams

of Primary One; Carnations, Sunflowers and Violets in the

ratio of 2 : 3 : 5 respectively.

(a) How many cakes did each of the stream get? (**4marks**)

(b) How many more cakes did Violets get than Sunflowers?

(**2marks**)

32. The line graph below shows the cost of posho and beans at

Mr. Muhofa’s shop. Study it and answer the questions that

follow.

**5000**

**4000**

**3000**

**2000**

**1000**

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|  | **Beans** |  |  |  |  |  |  |  |  |
|  |  |  | **Posho** |  |  |  |  |  |  |
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**Cost in shillings**

**0 1 2 3 4 5**

**Number of Kg**

(a) What is the cost of 1kg of posho? (**1mark**)

(b) If Omoding has sh4,000, how many kilograms of beans will he

buy? (**1mark**)

(c) Opito bought 3kg of posho and 2kg of beans. How much did he

spend altogether?(**3marks**)

**End**