DIVINE EDUCATION CENTRE

**END OF TERM 1 EXAMINATION 2024**

MATHEMATICS – P.6

***Time Allowed: 2hrs 30min***

**Name:……………………………………………………………………………………**

**Stream: ……………………………………….**

|  |  |  |
| --- | --- | --- |
| **FOR EXAMINER’S USE ONLY** | | |
| **Qn. No** | **MARK** | **SIGN** |
| **1 – 10** |  |  |
| **11 – 20** |  |  |
| **21 – 22** |  |  |
| **23 – 24** |  |  |
| **25 - 26** |  |  |
| **27- 28** |  |  |
| **29 - 30** |  |  |
| **31 – 32** |  |  |
| **TOTAL** |  |  |

**Read the following instructions carefully:**

1. The 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 answers to both Sections **A** and **B** must be written in the spaces provided.
5. All answers must be written using a blue or black ball

point pen or ink. Diagrams should be drawn in pencil.

1. Unnecessary alteration of work may lead to loss of marks.
2. Any handwriting that cannot be easily read may lead to loss of marks.
3. Do **not** fill anything in the boxes indicated for Examiner’s use only.

***Turn over***

**SECTION A: 40 MARKS**

*Answer* ***all*** *questions in this section*

*Questions* ***1*** *to* ***20*** *carry two marks each*

1. Subtract: from

1. Write 94,040 in words.

………………………………………………………………………………………………………………

……………………………………………………………………………………………………………..

1. Solve for k : 7 = k - 2
2. Given that Q = {br, a, n, d}

Calculate the number of subsets in set Q

1. Find the value of 2 in 211three

1. Simplify +2 - - 7
2. Express 420 grammes as kilogrammes.

1. Round off 4279 to the nearest hundreds using a number line below.

1. Find the next number in the sequence.

1, 4, 9, 16, \_\_\_\_\_\_\_\_\_\_\_\_\_

1. Using a protractor, measure angle PQR below.

R

Q

P

1. Given that P and 420 are complement angels, find the value of P.

1. Simplify: 5a – 2a + a
2. A forty minute lesson ended at 12:20p.m

At what time did the lesson start?

1. The cost of 3 tomatoes is sh.1,500. How many tomatoes will Sarah buy with sh. 4,000?
2. A car covered a certain distance at a speed of 60km / hr for 2 ½ hours. Calculate the distance the car covered.

1. Change 0.25 to a common fraction in its simplest form.
2. Given that represents 40 books. How many pictures will represent 240 books?
3. Work out: 4 3 2five

* 1 1 3five

1. The perimeter of the figure below is 20cm. find its width

W

6cm

1. Today is Tuesday, what day of the week will it be 12 days from now?

**SECTION B: 60 MARKS**

1. Given that n(Ʃ) = 20, n(F) = 11, n(M) = 12 and n(F n M) = 3
2. Draw a venn diagram and represent the above information.

(03marks)

1. Find n(F ∩ M)**/** (02marks)
2. Given that cards 7 3 5
3. Write the smallest 3-digit number formed using all the above cards and expand the number using place values. (02marks)

1. Round off the largest 3-digit number to the nearest hundreds. (03marks)
2. Use the number line below to answer the questions about it.

q

p



r

1. Write the integers represented by arrows, (01mark@)

(i) r = \_\_\_\_\_\_\_\_\_\_\_\_\_ (ii) p \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (iii)q \_\_\_\_\_\_\_\_\_\_\_\_\_

1. Write the mathematical sentence for the number line (02marks)

1. (a)Change 231five to decimal base (02marks)

(b)The value of a certain digit y in y3five is 20. Find the value of y (02marks)

1. (a) Given that 3m and 420 are complementary angles, find the value of m

(02marks)

(b) Find the value of w in the figure below. (3 marks)

360

2w

1. Danit went for shopping and bought the items as shown in the shopping table.

|  |  |  |  |
| --- | --- | --- | --- |
| Items | Quantity | Unit cost | Amount |
| Milk | 2litres | Sh. 1800 | Sh. |
| Sugar | 1 ½ kg | Sh. | Sh. 6750 |
| Meat | kg | Sh. 16,000 | Sh. 8000 |
| Total expenditure | | | Sh. |

1. Complete the table above. (04marks)

1. If she went with sh. 20,000, find her change. (02marks)
2. In a class of 42 pupils, are girls and the rest are boys.
3. How many boys are in the class? (02marks)

1. How many more girls than boys are in the class? (03marks)
2. Study the venn diagram below and use it to answer the questions that follow.

PF18 PFw

21 22

k 31

23

1. Find the value of (02marks@)

(i) k

(ii) w

1. Find the LCM of PF18 and PFw (02marks)

1. Ben is 14 years older than Aaron. The sum of their age is 28 years.
2. How old is Ben? (03marks)

(b)How old will Aaron be in 3 years’ time? (02marks)

1. A trader bought 5 trays of 30 eggs at sh. 9000 each tray. He sold all the eggs at sh. 500 each.

Calculate the profit he made after selling all the eggs. (05marks)

1. (a) A car travels at a speed of 55km/hr for 3 hours. Find the distance it covered. (02marks)
2. Express 3:40p.m as a 24 hour clock system. (02marks)

1. Using a pair of compasses, ruler and a pencil only,
2. Construct a triangle PQR such that angle QPR = 600, line PQ = 6cm and line QR = 5cm. (04marks)
3. Measure line PR =……………………… cm (01mark)

**\*\*END\*\***