Name of Candidate: _____

MWENITETE ZONE MOCK 2022

MATHEMATICS

(100 MARKS)

Thursday   , May 2022

Subject Number: P131
Time allowed: 2hours
8:00 – 10:00 am

Name of Candidate: _____
(Surname First)

Name of School: _____

1. **This paper contains 7 pages. Pleases check**.

2. Write your name and name of your school in the space provided and your examination number on top of each page of question paper.

3. This paper consists of two sections **A** and **B** you are expected to answer all questions.

   IMPORTANT

4. In the table provided on this page, tick against the question number you have answered.

5. Hand in your worked paper to the invigilator when time is called to stop.

Question number	Tick if answered	Do not write in these columns	
1- 20	███		
21			
22			
23			
24			
25			
26			

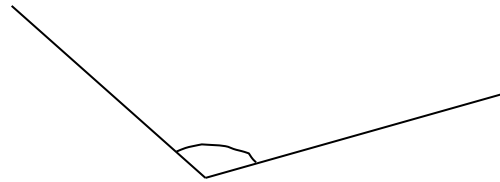**Turn over**

SECTION A(30 marks)

Answer one question from this section on the answer sheet provided

1. Write ten million one hundred and twelve in figures.
   A. 10,100,012
   B. 10,000,112
   C. 10,001,012
   D. 10, 010,012

2. What is the place value of 4 in the following number 874.9402.
   A. tenth
   B. Ones
   C. Tens
   D. hundredth

3. Find the total amount to be paid on a loan of K22,000 for 2 years at 5% simple interest.
   A. K24,210
   B. K2,210
   C. K22,000
   D. 54,210

4. Write seventeen minutes to seven in the morning in figures.
   A. 07:17am or 7:7hrs
   B. 06:43am or 6:43hrs
   C. 07:43am or 7:43hrs
   D. 17:07 pm or 17:07hrs

5. What fraction is equated to 60%.
   A. $\frac{4}{5}$
   B. $\frac{2}{5}$
   C. $\frac{1}{5}$
   D. $\frac{3}{5}$

6. The circumference of a bicycle tyre is 176cm. calculate it's diameter (take $\pi = \frac{22}{7}$)
   A. 77 cm
   B. 38.5 cm
   C. $38\frac{1}{2}$ cm
   D. 76cm

7. What would be the result if 0.382 is multiplied by 2.0?
   A. 07.640
   B. 0.7640
   C. 076.40
   D. 0764.0

Figure 1. shows a type of angle. Use it to answer **Question 8**.

8. What name is given to the type of angle in figure above.
   A. right angle
   B. acute
   C. obtuse
   D. reflex angle

9. The drawing of an object is 12cm long. What is the actual length of object if the scale used 1 :10.
   A. 120cm
   B. 1.2cm
   C. 12cm
   D. 10cm

10. A teacher has been teaching at Katutula school for three decades. How many years has he worked at the school.
    A. 10 years
    B. 20 years
    C. 30 years
    D. 40 years

11. The initial temperature readings on a thermometer was 20°C. After being placed under the armpit of a patient, the temperature on the thermometer rose by 32°C. What was the new reading on the thermometer?
    A. 20°C
    B. 32°C
    C. 40°C
    D. 52°C

12. Amos gets a commission of K60 on every 8 shirts he sells. If he sells 130 shirts, find her commission?
    A. K3,900
    B. K975
    C. K976
    D. K399

Table 2 shows the official exchange rates of the Malawi Kwacha against foreign currencies in March 2021.

Currency	Buying	Selling
US Dollar ($)	667	681
British Pound (£)	860	881

13. If a person exchanges $20 and £15, how much money in Malawi kwacha did he get altogether.
    A. K26,240   C. K12,900
    B. K13,340   D. K133.50

A parent deposited the following notes

Notes	K	t
K 5,000	K 20,000	00
K 2,000	K 10,000	00
K 1,000	K5,000	00
K 500	K2,000	00

14. How many 2000 kwacha notes were deposited?
    A. 5 K2000 bank note   C. 4 K2000 bank notes
    B. 6 K2000 bank notes   D. 8 K2000 bank notes

15. Find the total amount of money that was deposited above in question above.
    A. K20,000   C. K17,000
    B. K30,000   D. K37,000

16. Find the value of x in the equation $3x+2 =18 - x$.
    A. 6   C. 5
    B. 4   D. 3

17. Simplify $\frac{3}{7} \div \frac{5}{6} + \frac{2}{5}$
    A. $\frac{32}{35}$ C. $\frac{30}{35}$
    B. $\frac{18}{35}$ D. $\frac{13}{35}$

18. Write the correct symbol that will make the inequality correct inside the box $x - > \square\ x - 3$.
    A. >   C. <.
    B. ≥   D. ≤

19. Choose the smallest masses;
    A. 75 milligrams   C. 75 hectograms
    B. 75 decigrams   D. 75 decagrams

20. John is 10 years old and Alinafe is x years old. If the sum of their ages is 40, how old is Alinafe?
    A. 40   C. 4
    B. 10   D. 30

SECTION B (60 Marks)

21. (a)Joel bought 8 oranges for his three brothers; Thomas, Yohane and Thomson. For every 2 oranges he gave to Thomas ge gave 3 to Yohane and 6 to Thomson. Calculate the difference between the number of oranges that Thomson and Thomas received.
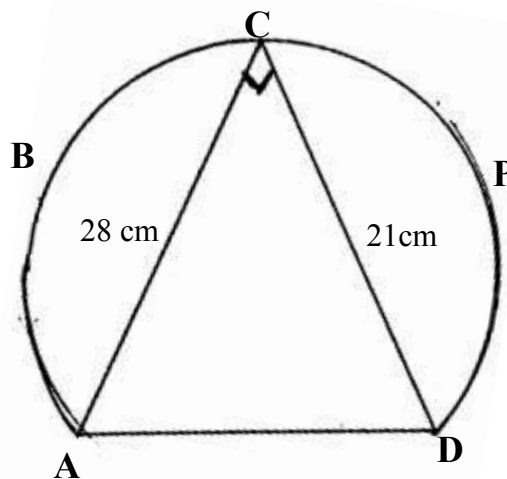
(5marks)

(b) Find the principal if K10,000 interest is obtained in 5 years at 5% per annum.

(4marks)

22. (a) Subtract the LCM of 60 and 85 from 296.

(4marks)

(b) Figure 2 is a composite shape made up of two semicircles ABC and CPD and right angled triangle ACD. AC = 28cm, CD = 21cm ang'~ ACD = 90^0.

Calculate the total area of the figure.

(6marks)

23. Calculate the compound interest on K28,000 for 2 yers at 10% per annum.

(5marks)

24. The following were prices for the same type of handbag in different shops; K3,700, K3,900, K 3,950 and K4,000. Calculate the mean price.

(4marks)

25. Twenty five learners got the following marks out of 5.
    1 ,4 ,5 ,2 ,3 ,2 ,5 ,4 ,3 , 4, 5 , 3 , 4 , 5 , 1 , 0 , 4 , 3 , 5 , 4 , 4 , 5 , 3 , 4 , 3.

    (a) Present the data in a tally table

                                                                                    (6 marks)
    (b) What was the mode?

                                                                                    (2marks)
26. (a) Using a ruler and a protractor, construct a triangle ABC in which BC = 7 cm ,angle ABC = 70^0 and ACB = 55^0.

                                                                                    (4marks)

(b) Simyton started business on 1 January, 2021 with cash in hand K20,000.00. During the month Simyton's transaction were as follows;

 2 Jan banked K10,000

  5 Jan sold goods K8,575

 10 Jan cashed a cheque for goods sold K9,000

 15 Jan paud loan K5,350

Prepare Smyton's cash account and balance it s at 30th February 2021

(10 marks)

Table below shows time and distance covered by a girl in a running competition.

Time (min)	0	5	10	15	20
Distance (km)	0	3	6	9	12

27. (a) Use the information in the table above and a scale of 2cm to represent 2 kilometers on 5 minutes on horizontal axis, draw a line graph.

(9marks)

(b) Use the graph to find the time taken by the girl to cover a distance of 8km

(2marks)

End of the paper!!!!!!