ST PAUL'S ZONE

2021 Primary School Leaving Certificate Mock Examination

MATHEMATICS
(100 MARKS)

Thursday,

Subject Number: P131
Time allowed: 2 hours
8.00 – 10.00 am

Name of Candidate: _____
(Surname First)

Name of School: _____

1.   **This paper contains 6 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 four 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.

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Question number	Tick if answered	Do not write in these columns	
1 – 20			
21			
22			
23			
24			
25			
26			
27			
28			
29			

SECTION A (30 marks)

Instruction

- Answer all questions in this section

- Encircle the letter representing the correct answer

1. Write 459 in Roman numerals
   A   CDLXI   B   DLIX
   C   CDLIX   D   DLXI

2. Which statement represents the inequality
$$y + z \geq 5?$$
   A y plus z is greater than 5
   B y plus z is greater than or equal to 5
   C y plus z is less than 5
   D y plus z is less than or equal to 5

3. Find the cost of 250g of beans at K80 per kg.
   A   K20.00   B   K200.00
   C   K2000.00   D   K20 000.00

4. In lower classes bell rings after 30minutes and upper classes bell rings after 35 minutes. If they ring together at 7 : 00am when will the bell ring together?
   A   10:30am   B   9:00am
   C   10:00am   D   11:30am

5. Simplify $1\frac{1}{4} : 1\frac{2}{3}$ to its lowest term
   A   3 : 4   B   4 : 3
   C   15 : 20   D   12 : 15

6. Calculate simple interest on K6000 for 3 months at 5% per annum.
   A   K75   B   K900
   C   K7500   D   K1080

7. A person digs $\frac{3}{8}$ of a pit in 24 days. How long will the person take to complete the remaining work?
   A   9 days   B   15 days
   C   64 days   D   40 days

8. A cyclist travels 65km between 11:00am and 2 : 15pm. Find the speed in km/hr.
   A   7.4km/hr   B   20km/hr
   C   20.6km/hr   D   211.25km/hr

Figure 2 shows cash bank which is partly filled

Use it to answer question 9 and 10

FDF BANK

Please write in duplicate

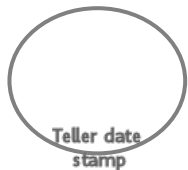CASH DEPOSIT SLIP

Date _____   Service Centre _____

Deposited to ▷   curre ☐   sa ☐ g   ☐
others

Account Name *Block letters*

Notes	K	t
K2000	8000	
K1000	3000	
K500	1500	
K200	1000	
K100	500	
K50	1250	
Coins		
Postal Money orders		
Total		

Teller date stamp

Amount in words _____

_____

Depositor's signature _____

_____

9. How many K50 notes were deposited?
   - A 1250
   - B 25
   - C 15
   - D 24

10. Find the total amount of money that was deposited?
    - A 8000
    - B 16250
    - C 14250
    - D 115250

11. A picture of a tree is 16cm long. If the scale used was $\frac{1}{2}$ find the actual.
    - A 4cm
    - B 8cm
    - C 2cm
    - D 32cm

12. The average of three numbers is 21. The average of the first two numbers is 20. Find the third number?
    - A 21
    - B 20
    - C 22
    - D 23

13. Solve the equation 3x +2 =10 -x
    - A x =3
    - B x =2
    - C x =4
    - D x =1

14. Mr. Phiri has 450 livestock for every 5 goats there are 4 sheeps. How many goats are there in his kraal?
    - A 50
    - B 150
    - C 200
    - D 250

15. During a one hour lesson there were 18 minutes of writing and the rest was teaching. What percentage of the lesson was teaching?
    - A 30%
    - B 35%
    - C 42%
    - D 70%

16. What is the smallest fraction among these fractions $\frac{2}{3}, \frac{3}{5}, \frac{4}{7}, \frac{13}{20}$
    - A $\frac{4}{7}$
    - B $\frac{2}{3}$
    - C $\frac{3}{5}$
    - D $\frac{13}{20}$

17. Express 2km 7dam in metres
    - A 2007m
    - B 2000.7m
    - C 2070m
    - D 27000m

18. Correct 2604.8324 to 2 significant figures
    - A 2604.82
    - B 2000.0000
    - C 2600
    - D 2604.80

19. Calculate the distance given time $2\frac{3}{4}$ hrs and speed 72km/h
    - A 26.18Km/h
    - B 61km
    - C 198km
    - D $74\frac{3}{4}$km/hr

20. An agent received K1 800 commission

for selling newspaper. This was 15% of
the total sales. Find the amount of
money representing the total sales?

A K2 700	B K12 000
C K1 200	D K120 000

SECTION B (60 marks)

Answer all questions in this section. Write your answers in the space provided under each question. Show your working

21. (a)   The marked price of a cloth is K620 per metre. A discount of 8% per metre was given to
       the buyer.
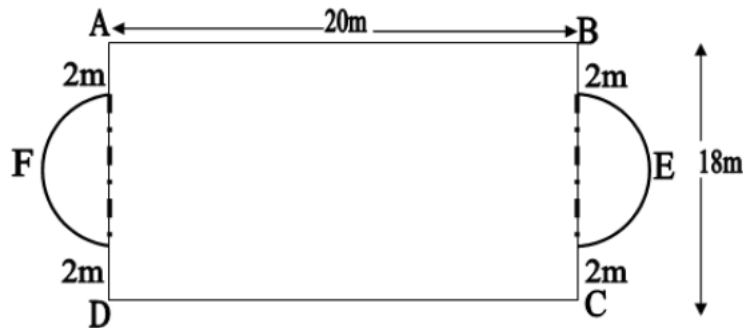
      i.   Find the discount

(2 marks)

      ii.   Find the selling price

(2 marks)

(b)   Figure 3 is a diagram comprised of a rectangle ABCD and two semi – circles BEC and AFD

Find the perimeter of the whole figure

(5 marks)

(c)   A pole is $3\frac{1}{2}$ long. If 1.75m is painted blue, what percentage of a pole is painted

blue?

(4 marks)

(d) A man was born in 31BC and died in 50AD. How old was he the time he died?

(2 marks)

22. (a) A wall measures 8m by 6.5m. it has a widow whose sides measure 4m by 2.5m. find the area of
    a wall.

(4 marks)

23. (a) A shopkeeper bought cooking oil at K42 300. He sold it at a profit of 15%. What was his selling
    price?

(5 marks)

(b) Calculate the difference between the LCM and HCF of 16, 20 and 36

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(6 marks)

(c)   Convert 10m 8cm 2mm to mm

(7 marks)

24. The average age of 5 girls is 12. One of them is 16 years old. What is the average age of the remaining 4 girls?

(6 marks)

25. Find the total cost of the following items

   4 dozens of pens at K600 each

   200g of sugar at K650 per kg

   $2\frac{1}{2}$ metres of lining material at K720 per metre

(4 marks)

Table 2 shows income tax rates. Use it to answer the question that follow

INCOME PER MONTH	RATE FOR TAX
First K9000	0%
Next K3000	15%
Excess (over) K12 000	30%

26. Mr. Limbani gets a salary of K39 400 a month. Find the amount he gets after deducting income tax.

(7 marks)

27. Chikondi started business on July 1, here are the transaction, prepare a bank account and come up with balance at the end of the month.

       July 1   banked K12 000
       July 2   paid transport by cheque K5000
       July 7   paid water bills by cheque K3000
       July 15   sold goods by cheque K7000   (6 marks)

END OF QUESTION PAPER