ST. MARTIN ZONE MOCK EXAMINATIONS BOARD

2022 PRIMARY SCHOOL LEAVING CERTIFICATE EXAMINATIONS

MATHEMATICS

(100 marks)

Thursday, 20th April, 2022

Subject Number: PO17 Time Allowed: 2hrs 08:00am-10:00am

Candidate name:	
(Surname First)	
School Name:	

Instructions

- 1. This paper consists of 6 printed pages. Please check.
- 2. Write your **Examination Number** at the top of this paper.
- 3. This paper consists of two sections: A and B.
- Answer all questions in section A and B. In section A
 encircle the letter A, B, C or D representing the correct
 answer. In section B write your answers in the space
 provided after each question.
- 5. In the table provided on the left side of this page, tick against the question you have answered.
- 6. Follow the instruction of each question carefully.
- 7. IMPORTANT.
 - Please make sure that you have written your name, school name and examination number on each question paper.
 - Please hand in your filled question paper to the Invigilator at the end of examination.

Question Number	Tick if answered	Do not these co	write in
1-20	answered	these co	Julilis
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			

SECTION A (40 MARKS)

- 1. Express 276.206 to the nearest whole number
 - A. 276.200
- C. 276.000
- B. 277.000
- D. 276.21
- **2.** Eight hundred and forty one million and thirty eight.
 - A. 841 000 038
- C. 80 041 038
- B. 84 100 038
- D. 800 410 038
- 3. Simplify 6m 3m 2m m.
 - A. 3m

C. 6*m* - *m*

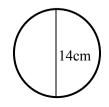
B. 0

- D. 6m-3m-2m-m
- **4.** Which of the following are not numeric patterns?
 - I. 11 14 17 20 23
 - II. 1 4 9 16 25
 - III. 1 1 2 3 5 8 13 21
 - A. 11 14 17 20 23
 - B. 1 4 9 16 25
 - C. None
 - D. 1 1 2 3 5 8 13 21
- 5. Which of the following is LCM of 40, 30, 48 and 54.
 - A. 2160
- C. 2190
- B. 2170
- D. 2180
- **6.** Which of the following values of angles represents acute angle?
 - A. 90°

C. 150°

B. 70°

- D. 275°
- 7. Change 8kilograms to grams.
 - A. 800g
- C. 8000g
- B. 7000g
- D. 1000g
- **8.** What term is given when a cost price is more than a selling price?
 - A. Discount
- C. Marked price
- B. Loss
- D. Profit
- **9.** Which of the following is a circumference of the circle below:



- A. 902cm
- C. 77cm
- B. 44cm
- D. 66cm
- **10.** Add 84.04, 22, 0.55 and 8.
 - A. 84.89
- C. 92.81
- B. 85.61
- D. 114.59
- **11.** Express 45% as a ratio in its simplest form.
 - A. 9:20
- C. 45:100
- B. 20:9
- D. 100:45
- **12.** How many fortnights are there in 56 days
 - A. 2

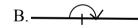
C. 8

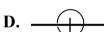
B. 4

- D. 14
- **13.** Which of the following is the greatest mass?
 - A. 75 milligrams
- C. 75 hectograms
- B. 75 decigrams
- D. 75 decagrams
- **14.** Which of the following angles is a half turn?









- **15.** What is DXLIX in Hindu Arabic numeral?
 - A 549
- C. 649
- B. 559
- D. 655
- **16.** Decrease 80 by 20%
 - A. 16

- C. 64
- B. 60 D. 96
- Table 1. shows marks and number of learners represented in a tally form.

Table 1

Marks (%)	Tally
10	
20	-
30	
40	-

2022

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Use the table to answer questions 17 and 18

B. 25

D. 35

- 17. What was the modal mark?
 - A. 10

C. 30

B. 20

- D. 40
- **18.** What was the median mark?
 - A. 20

C = 30

- **19.** What is a period of 5 years called?
 - A. Century
- C. Generation
- B. Decade
- D. Instrum
- **20.** Find the simple interest to be paid on a loan of K24 000 for 3 years at 10% per annum.
 - A. K720
- C. K24 720
- B. K7200
- D. K31 200

SECTION B (60 MARKS)

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

- 21. A. Simplify $2\frac{2}{9} \times (3\frac{3}{4} 1\frac{5}{8}) \div 1\frac{1}{3}$ (4 marks)
- **22. A.** A child had 2a + b guavas. If she received 10 + a other guavas, find the total number of guavas she had. (3 marks)

- **B.** A circular ground has a diameter of 28.7*m*. calculate the length of wire that could be used to fence the ground. (Take $\pi = \frac{22}{7}$) (3 marks)
- **B** A doctor recorded temperatures of a patient at different intervals as follows 36.0°C, 36.2°C, 37.7°C and 38.1°C. Calculate the mean temperature of the patient (3 marks)

23. Figure 2, is a rectangle ABCD with triangle CDE inside it.

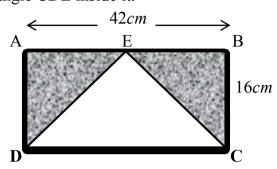


Figure 2

If AB = 42cm and BC = 16cm, calculate the are of the shaded part. (4 marks)

B Figure 3, shows a drawing of a garden in the form of a trapezium WXYZ. In which WX = 50m, WZ = 40m, YZ = 70m, angle $WZY = 60^{\circ}$ and angle $XWZ = 120^{\circ}$

Figure 3

- i. Using a scale of 1*cm* to represent 10*m*, draw the figure accurately.(3 marks)
- ii. Measure and state the length of XY (3 marks)

24. A. The value of a sofa set went down by 12% to K132 000 after one year. Find the original value of the sofa set.

(4 marks)

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25. A. In a number pattern, the first number is 60. Calculate the fourth number.

is 540, the second is 180 and the third (3 marks)

A tank measuring 5*m* long, 4*m* wide and 3m deep is half full of water. Calculate the volume of water in the tank. (4 marks) C. Table 2 shows Mama's budget for the month of February 2018

Items	Quantity	Cost for one item (K	Amount (K)
Sugar	5 Packets	850.00	4250.00
Cooking oil	3 bottles	1200.00	
Soap	2 Units		1600.00

- Complete the table.
- ii. Find the total cost for Mama's budget (3 marks)

27. A. The average mass of 13 bags of maize is 52.2kg. If 3 bags are sold, the average mass of the remaining bags is 52.7kg. Calculate the total mass of the three bags.

(4 marks)

A. A person bought 20 units of fruits for **26.** K2000 and sold them at a profit of K50 each. Calculate the selling price of each fruit. (3 marks) 2022

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B Using a ruler and a protractor, construct an equilateral triangle RST with a side 4*cm*. (3 marks)

30. Table 4, shows the results of a science test for 60 learners.

Marks	Percentage of learners
From 60 and above	10%
From 50 to 59	20%
From 40 to 49	40%
From 20 to 39	20%
From 19 and below	10%

A. Find the number of learners who had marks from 40 to 49. (2 marks)

28. Table 3, shows an average rainfall recorded at a weather station for four weeks.

Week	Rainfall
1	35
2	47
3	18
4	20

- Using a scale of 2*cm* to represent 10*mm* on the vertical axis, draw a bar graph to represent the information. (use a paper graph as given)(4 marks)
- 29. A person paid K420 000 as a custom duty fee for goods bought. If the rate of the custom duty was $52\frac{1}{2}\%$, find the value of the goods. (4 marks)

B. Find the total number of leaners who had marks greater than 49. (3 marks)