

ද මැසිනො ද් විදුහල, කදාන De Mazenod College, Kandana

විදුහල, කලාන De Mazenod Gellege Kandana ද මැතිතෙන් kandana ද මැතිතෙන් විදුහල කලාන De Mazenod llege, Kandana ද මැතිතෙන් විදුහල කලාන De Mazenod ද මැතිතෙන් විදුහල කලාන De Mazenod College විදුහල කලාන De Mazenod College

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Mathematics

First Term Test202 4

Grade 7

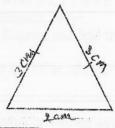
Time 2 Hours

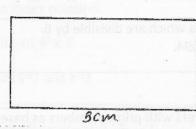
Part I

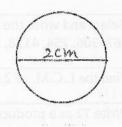
- · Answer all questions.
- Each question carries 02 marks.
- 1. Simplify.

 $2 + 5 \times 4 \div 2$

- 2. Write the elements of the set, square numbers between 0 and 20.
- 3. Make a compound figure using the below shapes and draw the axes of symmetry for the new compound figure. (use all the figures)





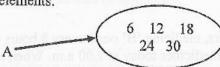


20m

- 4. The number 56 is divisible by 9. Fill in the box with a suitable digit.
- 5. If the given sentence is correct mark " / ", if incorrect mark "X".

The number of axes of symmetry in a circular lamina is greater than the number of axes of symmetry in a rectangle. (_____)

- 6. Write all the multiples of 4 between 20 and 30.
- 7. Find the value of (-2) + (-1) using the number line.
- 8. Write how the index notation 53 is read.
- 9. Set 'A' has been represented by a Venn diagram. Express set 'A' in a different form by writing the elements.



- 10. Mark $(\sqrt{})$, if the statements are correct and (X), if the statements are incorrect.
 - i) $7 + 1 \times 3 = 24$ ii) $12 - 4 \div 2 = 10$

11. Copy the figures given below and complete them to obtain a bilaterally symmetric figure.



- 12. Find the value of 5(29 + 3).
- 13. Write 54 as a product of prime factors.
- 14. In a certain class, 24 chocolates, 60 toffees and 84 lollipops were given to distribute among the students. Each student got each item equally. Find the number of students in that class.
- 15. Find out whether 154 is divisible by 3, 4, 6 and 9 without dividing.
- 16. Fill in the blanks.
 - i) $(+3) + \underline{\hspace{1cm}} = (+8)$
 - ii) $\underline{\hspace{1cm}} + (-5) = (+2)$
- 17. If x=2 and y=1, find the value of $4x^2y$.
- Select and write the numbers which are divisible by 6.
 267, 306, 754, 4128, 3700, 8094.
- 19. Find the L.C.M. of 2,4 and 9.
- 20. Write 72 as a product of powers with prime numbers as bases.

Part II

Answer Question 01 and four more questions.

1.

a)

- i. What are factors?
- ii. Write all the factors of 42. (full marks will be given only for writing all the factors)
- iii. Write the first 5 multiples of 12.

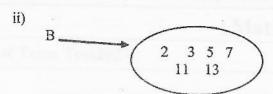
b)

- i. Find the H.C.F. of 16, 24, 32.
- ii. සොබා එයැ ඛගසාඑ ද 14ල 35ල 42ග
- c) A person should take the medicine 'P' once every 4 hours, medicine 'B' once every 8 hours and medicine 'C' once every 16 hours. The person took all three medicines today at 7.00 a.m. When will he take all three medicines at the same time again?

(16 marks)

2.	a١	i)	What	is	cal	led	а	set?
	~ /	''	. ALLING				u	2011

- ii) What is the method called expressing the elements of a set inside a closed figure?
- b) i) $P = \{$ Multiples of 3 between 1 and 20 $\}$, write set 'P' listing all the elements.



Write set 'B' in terms of common property of its elements by which the elements can be clearly identified.

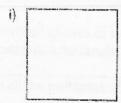
iii) A= {Letters of the word "waterfall" }Write all the elements of set 'A' within curly brackets.

(11 marks)

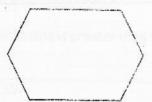
- 3. a) i) Write 125 in index notation with 5 as base.
 - ii) Write 36 as a product of powers with prime numbers as bases.
 - b) i) Write $3 \times 3 \times p \times p \times q$ in index notation.
 - ii) Expand, 5x³y²
 - iii) Expand and find the value of $4^2 \times 3$
 - c) Find the value of 2a²b², when a=3 and b=5

(11 marks)

- 4. a) i) What is defined as a bilaterally symmetric plane figures.
 - b) Draw the axis of symmetry in the given plane figures.







- c) Write the name of a plane figure with the following numbers of axis of symmetry.
 - i) Only one axis of symmetry.
 - ii) Two axis of symmetry.
 - iii) Three axis of symmetry.
 - iv) Infinite axis of symmetry.
- d) i) Define a way to find the centre of a circle.
 - ii) The teacher says, there is a triangle with no axis of symmetry. Do you agree? Give reasons for your answer.

(11 marks)

5.	
a) i) What is the digital root of 6325?	Constant Section of the State Constant of the
ii) Suggest a method to see whether a number is divisi iii) If the three digit number 84 is divisible by 6 w	ble by 3 without dividing that number.
in/ if the three digit humber 84 is divisible by 6 w	ithout a remainder, what are the numbers
that can be used to fill the cage.	bas I reseases thousand the Arginia
AND THE COLUMN TO THE COLUMN TWO IS NOT THE COLUMN TO THE COLUMN TWO IS NOT THE COLUMN T	389 HUT
h) Solve	

- b) Solve. i) $8 + 3 \times 4 \div 3$
 - ii) $200 (10 \times 4) \div 2 + 10$
- iii) The taxi charges for the first kilometre is Rs.80. It is charged Rs.55 for each kilometre above the first. If a passenger travelled 26 kilometres, write a numerical expression for the amount he had to pay and simplify it.

(11 marks)

- 6. a) Find the value using the number line.
 - i) (+5) + (-3)
 - (-3) + (-2)
 - b) Evaluate.
 - i) (+4) + (+2)
 - ii) $\left(-\frac{3}{7}\right) + \left(+\frac{2}{7}\right)$
 - iii) (+2.4) + (-4.6)
 - iv) (-3) + (+1)
- c) On a certain day in Tokyo at 3.00 a.m. the temperature was -3.6 °C . On the same day at 7.00 a.m. the temperature increased by 8 °C . What is the temperature at 7.00 a.m. in Tokyo on that day?

(11 marks)