ANANDALAYA PERIODIC TEST – 2 Class : VIII								
Sub	ject: Mathematic e : 23-09-2023	CS		Tir	M.M: 50 me: 2 Hours			
i) ii) iii)	compulsory. Section A has 9 Section B has 7 Section C has 3	aper contains 24 of MCQ's each of very short answe 5 short answer typ	-	narks.	section is			
Section-A1. The property of rational numbers illustrated by the mathematical expression(1) $(\frac{2}{7} + \frac{-3}{8}) \times \frac{5}{11} = (\frac{2}{7} \times \frac{5}{11}) + (\frac{-3}{8} \times \frac{5}{11})$ is(A) Associative property of Addition(B) Distributive property(C) Associative property of multiplication(D) Commutative property of addition								
2.	The product of $(A) \frac{56}{12}$	$-3\frac{2}{3}$ and $1\frac{1}{4}$ is (B) $-\frac{49}{12}$	(C) $-4\frac{7}{12}$	(D) $4\frac{7}{12}$	(1)			
3.	If $5x - 3 = 3x$ (A) -1	-5, then value of (B) 1	of x is $(C) -2$	(D) 2	(1)			
4.	The sum of the (A) 180 $^{\circ}$	exterior angles of (B) 360 °	f an octagon is (C) 540 °	(D) 720 °	(1)			
5.	In a game of ch (A) 1	ance, the probabi (B) 0	lity of winning is $\frac{1}{5}$, th (C) $\frac{4}{5}$	e probability of losing the game is $(D)\frac{3}{4}$	is (1)			
6.	Which of these (A) 2367	is not a perfect so (B) 1225	quare? (C) 784	(D) 3600	(1)			
7.	How many natu (A) 19	ural numbers lie b (B) 15	etween 9 ² and 10 ² ? (C) 17	(D) 18	(1)			
8.	The value of (0 (A) 5.12	$(B)^3 = $ (B) 0.512	(C) 51.2	(D) 512	(1)			
9.	Which will be t (A) 2	the ones digit of the (B) 6	he cube of a number end (C) 4	ding with 2? (D) 8	(1)			
10.	Simplify: $\frac{3}{4} \times \frac{3}{4}$	$\frac{-2}{8} \times \frac{16}{18} \times \frac{24}{5}$	Section-B		(2)			
11.	If $4(8x + 5) = 2x - 8$, find the value $3x$							
12.	Four-fifths of a number is greater than three-fourths of a number by 4. Find the number.							
13.	A die is rolled		probability of getting	and (iv) a prime number?	(2)			

13. A die is rolled once. What is the probability of getting (i) 3 (ii) 7 (iii) an even number and (iv) a prime number?

- 14. The circulation of newspapers in a town is shown by the bar graph. Study the graph and answer the following questions.
 - a) What is the difference between the number of Bengali newspapers and English newspapers being circulated?
 - b) Find the total number of newspapers in all the languages.
- 15. Find the Pythagorean triplet whose smallest number is 42.
- 16. A metallic cuboid measuring 9 cm x 6 cm x 4 cm is melted and formed into a cube. Find the side (2) of a cube so obtained.

of Newspapers_

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Section-C

- 17. From the sum of $\frac{2}{9}$ and $\frac{-3}{7}$, subtract $\frac{21}{63}$
- 18. An army contingent has 1296 men in total. They are required to stand for inspection in equal (3) number of rows and columns. Find the number of men in each row.
- 19. a) Find the number of sides of a polygon if the sum of the interior angles is 720 ° b) Find y in the rectangle GFED if FD = 2y + 8 and FGE = 6y - 4.
- 20. Solve the following linear equation :

$$\frac{3(y-5)}{4} - 4y = 3 - \frac{(y-3)}{2}$$

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21. Find the smallest number by which 10976 must be divided so that the quotient is a perfect cube. (3)

Section-D

22. The survey data on 200 children for popular Disney movies is shown below.

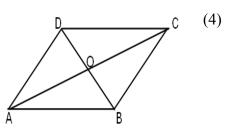
Movies	Frozen	Wings of Life	Cars 2	Planes
No. of Children	70	40	60	30

Represent the data by a pie-chart.

- 23. Find the least number which must be added to 4931 to make it a perfect square. Also, find the (4) square root of the perfect square so obtained.
- 24. In a rhombus ABCD, $\angle AOB = (7z + 6)^\circ$, $\angle DAO = (5z + 1)^\circ$. Find $\angle CDO$ and $\angle DCB$







2v+8

D

(3)

(3)

(2)

(3)

(2)

(4)