PT4/ANNUAL EXAMINATION, 2023-24

MATHEMATICS

Time – 3 hrs.

Class – VII

M.M. - 80

Name of the student			Secti	ion Date - 13.02	.2024 (Tuesday)	
	 This ques Section A Attempt a Section B Section C 	A consists of MCQs, all the questions. consists of 5 question consists of 7 question	into four sections A, B, Fill ups and Match t ns of 2 marks each. Att ns of 4 marks each. Att ns of 5 marks each. Att	the following question empt all the question empt any 5 questions	ns. 5.	
		<u>;</u>	SECTION – A			
Q1.	Choose the corr	ect answer.			(10x1=10)	
a)	Standard form of $\frac{32}{-48}$ is					
	i) $\frac{2}{-3}$	40	iii) $\frac{3}{-2}$	iv) $\frac{-3}{2}$		
b)	Convert $\frac{9}{25}$ into percent.					
	i) 25 %	ii) 35%	iii) 36%	iv) 45%		
c)	0.08 is equal to					
	i) 0.08%	ii) 0.8%	iii) 8%	iv) 80%		
d)	Perimeter of an equilateral triangle with each side 18cm is					
	i) 36 cm	ii) 54 cm	iii) 64 cm	iv) 72 cm		
e)	Area of a circle with radius 7 cm is					
	i) 154 sq.cm	ii)145 sq.cm	iii) 164 sq.cm	iv) 146 sq.cm		
f)	Algebraic expression of the statement "Sum of 5x and y subtracted from their product" is					
	i) xy – 5x +y	ii) 5xy – x +y	iii) 5xy – (5x+y)	iv) 5x + y – 5xy		
g)	The coefficient of 'p' in 5p -6q + 12 is					
	i) 12	ii) 5	iii) 6	iv) –6		
h)	Which of the following letters of English Alphabet has more than two lines of symmetry?					
	i) X	ii) M	iii) H	iv) O		
i)	The value of $5^0 + 6^0$ is					
	i) 0	ii) 1	iii) 2	iv) 3		
j)	The alphabet which does not have any line of symmetry is					
	i) A	ii) Q	iii) H	iv) M		
Q2.	Fill in the blanks	5.			(6x1=6)	

Amount = Principal + _____

i)

- When denominator of a rational number is positive integer and 1 is the only common ii) factor between the numerator and denominator, such rational number is said to be in iii) There are rational numbers between two rational numbers. iv) Area of a parallelogram = _____ × _____ The corner of a solid shape is called its v) 10000 in exponential form is _____ vi) Q3. Match the following nets with their solid shapes. (4x1=4)(i) (b) (ii) (c) (d) (iv) SECTION -B (Attempt all the questions). (5x2=10)Q4. Find out 75% of 200. Find the quotient of $(-16) \div \frac{2}{3}$ Q5. If x = 2 then what will be value of $x^2 + 5x - 2$? Q6. What cross section do you get when you give a vertical cut to Q7. i) a brick? ii) an orange? Q8. Write name of two shapes with no line of symmetry. SECTION -C (Attempt any 5 questions.) (5x4=20) A sum of Rs 1,500 is lent for 3 years at the rate of 6 % per annum. Find the interest. Q9.
- Q10. Find the sum of $\frac{-5}{6} + 2\frac{3}{5}$
- Q11. If the circumference of a circular sheet is 176 m then find its radius. Also find its area.
- Q12. Identify the terms and factors in the following expression. Show these by tree diagram.

$$7m^2n + 5mn^2$$
.

Q13. Express the following as a product of prime factors only in exponential form.

 64×125

- Q14. What letters of the English alphabet have reflectional symmetry (symmetry related to mirror reflection)
 - a) a vertical mirror (any two)
 - b) a horizontal mirror (any two)
 - c) both horizontal and vertical mirror (any two)
- Q15. In the given expression $8x^2 5x + 2$ identify
 - i) coefficient of x^2
 - ii) coefficient of x
 - iii) constant
 - iv) number of terms

SECTION - D

(Attempt any 6 questions).

(6x5=30)

- Q16. Find out 5 rational numbers between $\frac{7}{5}$ and $\frac{5}{3}$.
- Q17. Simplify the following expression and find the value if x = 38 x + 5(x - 2)
- Q18. A circular flower bed is surrounded by a path 4m wide. The diameter of the flower bed is 66m. What is the area of this path?
- Q19. If p = 10, find the value of $p^3 3(p 10)$.
- Q20. Simplify : $\frac{12^4 \times 9^3 \times 4}{6^3 \times 8^2 \times 27}$
- Q21. Mahima buys a book for Rs 275 and sells it at a loss of 15%. How much does she sell it for?
- Q22. Complete the following table.

Shape	Order of rotation	Angle of rotation
Square		
Rectangle		
Equilateral Triangle		
Regular hexagon		
Circle		

- Q23. Name the shadow that you might get when you throw light on following objects:
 - a) A ball
 - b) A dice
 - c) A birthday cap
 - d) A book
 - e) A cylindrical glass