# PERIODIC TEST 1 (APRIL, 2023) <br> <br> SUBJECT-MATHEMATICS <br> <br> SUBJECT-MATHEMATICS <br> <br> GRADE- VIII 

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## TIME: 90 MINS

## GENERAL INSTRUCTIONS:

1. This question paper consists of 21 questions and 5 sections.
2. All questions are compulsory.
3. Section A consists of 8 questions carrying 1 mark each.
4. Section B consists 02 marks each question.
5. Section C consists of 4 Short Answer type questions carrying 2.5 marks each.
6. Section D consists of 4 questions carrying 3 marks each.

## SECTION-A

$1 \times 8=8$

1. If $\mathrm{a}+\mathrm{b}=\mathrm{b}+\mathrm{a}$, name the property used.
2. If $\mathrm{a} \times(\mathrm{b} \times \mathrm{c})=(\mathrm{a} \times \mathrm{b}) \times \mathrm{c}$, name the property used.
3. How many rational numbers are there between any two given rational numbers?
4. Value of $0^{0}$ is equal to $\qquad$
5. 149600000000 in power form is equal to $\qquad$
6. Evaluate: $(1 / 3)^{-4}$
7. Express in standard form. 0.005 cm in meters.
8. The value of $\sqrt{ } 36+\sqrt{ } 144$
B. 1 Represent $-5 / \%$ on a number line.
B. 2 By what number should we multiply $2^{-4}$ to the power of minus four, so that the product is $2^{2}$
B. 3 Compute the value of $(-4)^{-2}$
B. 4 Find the square root of 1296.
B. 5 By what number should the sum of $18 / 5$ and $-7 / 15$ be divided to get $47 / 6$.
B. 6 The area of a rectangular plot is $10^{3 / 8} \mathrm{~m}^{2}$. Find the length of the plot if its breath is $21 / 2 \mathrm{~m}$.

## SECTION-C (Any 4)

$2.5 \times 4=10$
C. 1 Find the square root of the following numbers using long division

Method: 42.25
C. 2 Find the smallest 6 digit number, which is a perfect square, also find its square root.
C. 3 Solve

$$
\frac{\sqrt{59.29-\sqrt{5.29}}}{\sqrt{59.29+\sqrt{5.29}}}
$$

C. 4 Find the Square root. 24.01.
C. 5 If the hypotenuse of a right angle triangle is 10 centimeters and one of the other sides is 8 centimeters. Find the third side of the triangle.

SECTION-D (Any 4)
D. 1 Find two rational numbers between $1 / 5$ and $1 / 2$.
D. 2 Use prime factorization to find the square root of 11664.
D. 3 Simplify: $3 / 4+5 / 6+(-7 / 8)$
D. 4 Verify associative property of addition i.e

$$
x+(y+z)=(x+y)+z \text { for } x=1 / 2, y=2 / 3, z=-1 / 5
$$

D. 55929 students are sitting in an auditorium in such a manner that there are as many students in a row as there are rows in the auditorium. How many rows are there in the auditorium?

