

St. JOHN'S RESIDENTIAL PUBLIC SCHOOL

Sona Gopalpur, Sampatchak, Patna – Gaya Highway, Patna – 7 **Pre – Mid Term Exam - I (2023 – 24)**

Grade: VIII		Date: / 05/23
Subject: MATHEMATICS	Max Marks: 25	Duration: 1 hr.
Name:		Roll:

Section – A comprises of 9 questions with 1 mark each.

- A. Multiple choice questions:
 - 1. Additive Inverse of $\frac{a}{b}$ is

 - a) $\frac{b}{a}$ b) $\frac{\ddot{a}}{-b}$ c) $\frac{a}{b}$ d) $\frac{-b}{a}$
- 2. A rational number between $\frac{1}{3}$ and $\frac{1}{4}$ is a) 0.09 b)) $\frac{7}{24}$ c)) $\frac{1}{24}$ d) $\frac{-1}{24}$

- 3. $(2^{-3})^{-2}$ is
- a) $\frac{1}{64}$ b) 64 c) 32 d) $\frac{1}{32}$

B. Fill in the blanks:

4.
$$(-1)^{113}$$
 x $(-1)^{112}$ = _____

- 5. A number in the form of $\frac{a}{h}$ where $a \neq 0$ is called _____
- 6. The product of 0 and any rational number is 0. This property os known as _____
- C. State True/False for the given statement:
 - 7. There are infinite rational numbers between two rational numbers.

8.
$$a^{m} x a^{n} = a^{m+n}$$

9. The square of an even number is always an odd number.

Section -B comprises of 3 questions with 2 marks each.

- 10. Find the square root of 256 by prime factorisation method.
- 11. Represent $\frac{2}{5}$ on number line.
- 12. Evaluate $(\frac{3}{7})^{-1} \times (\frac{4}{5})^{-1}$

Section – C comprises of 2 questions with 3 marks each.

- 13. Find the smallest number by which 882be multiplied to get a perfect square.
- 14. Verify that x + y = y + x, if $x = \frac{-7}{18}$ and $y = \frac{-4}{15}$

15. Find x so that $(\frac{2}{3})^{-2}$ x $(\frac{2}{3})^{-9}$ = $(\frac{2}{3})^{2x+1}$