

DAV PUBLIC SCHOOLS, ODISHA

PERIODIC TEST – I (2023-24)

- Please check that this question paper contains 2 printed pages.
- Check that this question paper contains 20 questions.
- Write down the serial number of the question in the left side of the margin before attempting it.

CLASS – VII

MATHEMATICS

Time Allowed: 1 Hr 30 Min.

Maximum Marks: 40

General Instructions:

1. This question paper contains 4 sections: **A, B, C & D.**
 - Section-A consists of **5 MCQS**, 3 fill in the blanks and **2VSA** of **1 mark** each.
 - Section-B consists of **3 SA–I type** questions of **2 marks** each.
 - Section-C consists of **4 SA–II type** questions of **3 marks** each.
 - Section-D consists of **3 Long Answer (LA) type** questions of **4 marks** each.
2. Verify *all the answers thoroughly before submission*

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SECTION-A

(1x5=5)

- 1) Identify the rational number that is negative?
a) $\frac{-15}{-4}$ b) 0 c) $- \left| \frac{-3}{5} \right|$ d) Both a and c
- 2) 0.225 expressed as a rational number
a) $\frac{1}{4}$ b) $\frac{45}{210}$ c) $\frac{9}{40}$ d) $\frac{225}{999}$
- 3) The value of $\frac{7}{12} \div \frac{-7}{12}$ is :
a)-1 b) 1 c) 7 d) -7
- 4) The standard form of $\frac{-44}{-110}$ is ____.
a) $\frac{-22}{-55}$ b) $\frac{44}{110}$ c) $\frac{-22}{55}$ d) $\frac{2}{5}$
- 5) Between two rational numbers there are _____ rational numbers.
a) Only one b) infinitely many c) zero d) none of these.

FILL IN THE BLANKS

(1x3=3)

- 6) Given that $2024 \times 24 = 48576$, then the value of $2.024 \times 0.24 = \underline{\hspace{2cm}}$
- 7) The value of the expression $7.05 + 4.5 \div 0.09$ is _____

8) If $\frac{2x}{9} = \frac{16}{-3}$, then the value of x is _____.

ANSWER THE FOLLOWING QUESTIONS:

(1x2=2)

9) What should be subtracted from -15.834 to get 3.476?

10) Draw the number line and represent $\frac{-28}{5}$ on it.

SECTION-B

(2x3=6)

11) Insert two rational numbers between $\frac{-5}{10}$ and $\frac{7}{10}$

12) Simplify : $(\frac{-4}{3} + \frac{5}{7}) \times \frac{7}{9}$

13) Without actual division, determine if $-\frac{28}{250}$ terminating or non-terminating decimal number. Justify your answer

SECTION-C

(3x4=12)

14) Arrange the following rational numbers in ascending order.
 $-\frac{3}{10}, \frac{7}{5}, \frac{9}{-15}, \frac{18}{30}$

15) Verify $x + y = y + x$ for the values of x and y where $x = \frac{5}{7}$,
 $y = \frac{-3}{2}$.

16) The product of two rational numbers is -15. If one of the numbers is $2\frac{9}{13}$, then find the other number.

17) Simplify and express the result as a rational number in its lowest form:

$$\frac{0.144 \div 1.2}{0.016 \div 0.02} + \frac{7}{5} - \frac{21}{8}$$

SECTION-D

(4x3=12)

18) Sagar had to cover a distance of 65 km to reach his friend's house. He covered 34.35 km by bus, 28.392 km by taxi and rest by walking. How much distance did he cover by walking?

19) I. Express $\frac{-21}{49}$ as a rational numbers with (i) numerator 63 (ii) denominators 7.

II. Find the absolute value of $\frac{-4}{7}$ and $\frac{5}{-9}$ and find which of the rational number is greater.

20) Divide the sum of $\frac{-2}{13}$ and $\frac{-52}{26}$ by their product.
