

**DAV PUBLIC SCHOOLS, BHUBANESWAR**  
**PERIODIC ASSESSMENT -I (2022-23)**

- Check that this question paper contains 3 printed pages.
- Check that the question paper contains 20 questions.
- Write down the Serial Number of the question in the left side of the margin before attempting it.
- 15minutes time has been allotted to read this question paper. The question paper will be distributed 15 minutes prior to the commencement of the examination. The students will read the question paper only and will not write any answer on the script during this period.

**CLASS-VII**  
**SUB: MATHEMATICS**

**Time Allowed: 1½ Hours**

**Maximum Marks : 40**

**General Instructions:**

1. All the questions are compulsory.
2. The question paper contains four sections A, B, C and D
3. Section A consists of 10 very short answer (VSA) questions carrying 1 mark each.  
(Q5 is based on Assertion-Reason)
4. Section B consists of 3 short answer (SA-I) questions carrying 2 marks each
5. Section C consists of 4 short answer (SA-II) questions carrying 3 marks each
6. Section D consists of 3 long answer (LA) questions carrying 4 marks each.

**SECTION A (1×10 =10m)**

**I. Choose the appropriate answer:**

1. How will you write the standard form of  $\frac{-84}{-147}$  ?  
(a)  $\frac{84}{147}$                       (b)  $\frac{12}{21}$                       (c)  $\frac{4}{7}$                       (d)  $\frac{-4}{-7}$
2. Determine the value of x. If  $\frac{x}{6}$ , -13 are equivalent.  
(a) -78                      (b) 78                      (c) -19                      (d) 19
3. Subtract  $\frac{-5}{7}$  from zero:  
(a) 0                      (b)  $\frac{5}{7}$                       (c)  $\frac{-5}{7}$                       (d) none of these
4. When 0.36 is written as a rational number in its simplest form, the sum of the numerator and denominator is  
(a) 15                      (b) 45                      (c) 136                      (d) 34

5. **Assertion (A):** The multiplicative inverse of  $4\frac{1}{2}$  is  $\frac{9}{2}$ .

**Reason (R):** Multiplicative inverse of a number is the number which when multiplied with the original number gives the result as 1.

- (a) Both (A) and (R) are true and (R) is the correct explanation of (A).
- (b) Both (A) & (R) are true and (R) is not the correct explanation of A
- (c) (A) is false but (R) is true.
- (d) (A) is True but (R) is false.

**II. Fill in the blanks:**

- 6. Express  $-2.15$  as a rational number: \_\_\_\_\_
- 7. If  $25 \times 15 \times 4 = 1500$ , then the value of  $2.5 \times 0.4 \times 0.0015 =$  \_\_\_\_\_
- 8.  $2.001 \div 0.003 =$  \_\_\_\_\_

**III. Answer the following questions:**

- 9. On a number line, the rational number  $\frac{-3}{-5}$  lies on which side of zero?
- 10. Find the reciprocal of  $\frac{-5}{-19}$

**SECTION B (2×3 =6m)**

- 11. Verify  $x \div y \neq y \div x$  by taking  $x = \frac{3}{4}$  and  $y = \frac{-5}{6}$
- 12. What number should be added to  $\frac{-3}{7}$  so as to get 1?
- 13. Simplify and express the result as decimals:

$$\frac{3}{8} - \left(\frac{-2}{9}\right) + \left(\frac{-5}{36}\right)$$

**SECTION C (3×4 =12m)**

- 14. Express the rational number  $\frac{3}{7}$  as a decimal using long division method.
- 15. Simplify:  $\frac{3}{7} + \frac{5}{7} + \left(\frac{-3}{7}\right) + \left(\frac{-5}{7}\right)$
- 16. Insert 3 rational numbers between  $\frac{1}{8}$  and  $\left(\frac{-15}{8}\right)$
- 17. Arrange in descending order:  $\frac{7}{8}, \frac{64}{16}, \left(\frac{36}{-12}\right), \left(\frac{5}{4}\right), \left(\frac{140}{-28}\right)$

**SECTION D** ( $4 \times 3 = 12\text{m}$ )

**18.** Vikram gave 0.3 of the property to his son and  $\frac{6}{20}$  of the property to his daughter and rest of the property donated for education of girls.

(a) Who has got the highest share of the property among son and daughter?

Justify it.

(b) What are the values (any two) depicted by Vikram here?

**19.** Divide the sum of  $1\frac{2}{3}$  and  $\frac{1}{6}$  by their difference.

**20.** Find the value of x:

(a)  $\frac{x}{9} = \frac{19}{3}$

(b)  $\frac{15}{-x} = \frac{1}{-7}$