

## REVISION PRACTICE ASSIGNMENT (RPA)

### SUBJECT-MATHEMATICS

SESSION-2020-21

CLASS-IX

### TOPIC: Ch-1 (NUMBER SYSTEM)

#### SECTION: A

A. Objective type question :-

1x5=5

- Every rational number is
  - a natural number
  - an integer
  - a real number
  - a whole number
- Between two rational numbers
  - there is no rational numbers
  - there is exactly one rational number
  - there are infinitely many rational numbers
  - there are only rational numbers and no irrational numbers
- Decimal representation of a rational number cannot be
  - terminating
  - non-terminating
  - non-terminating repeating
  - non-terminating non-repeating
- The product of any two irrational numbers is
  - always an irrational number
  - always a rational number
  - always an integer
  - sometimes rational, sometimes irrational
- The decimal expansion of the number  $\sqrt{3}$  is
  - a finite decimal
  - 1.73205
  - non-terminating recurring
  - non-terminating non-recurring

#### SECTION: B

#### SECTION: A

B. Objective type question :-

1x5=5

- $2\sqrt{3} + \sqrt{3}$  is equal to ?
- Find the value of  $\sqrt{10} \times \sqrt{15}$ .
- Find a rational number between  $\sqrt{2}$  and  $\sqrt{3}$ .
- How many digits are there in the repeating block of digits in the decimal expansion of  $\frac{17}{7}$ ?
- Find a rational number equivalent to  $\frac{7}{19}$ .

**SECTION: C**

**C. Very Short Answer Type Question :-**

**2x3=6**

11. Insert 10 rational numbers between -5/13 and 6/13.
12. Give an example of two irrational numbers whose difference is an irrational number.
13. Represent  $\sqrt{2}$  and  $\sqrt{3}$  on number line.

**SECTION: D**

**D. Long Answer Type Question :-**

**4x1=4**

14. If  $p = \frac{3 - \sqrt{5}}{3 + \sqrt{5}}$  and  $q = \frac{3 + \sqrt{5}}{3 - \sqrt{5}}$ , find the value of  $p^2 + q^2$ .