**Self-Assignment -1**

**Topic: Real Numbers**

**Class: 9th Max. Marks: 25**

**Answer all questions. Each question carries 1/2 marks. 10 × 1/2 = 5M**

1. Write a rational and an irrational number between 6 and 7?
2. If = 1.414, then find the value of ?
3. Express in exponential form?
4. Is (2 + (2 - ) an irrational number?
5. What is the simplest R.F of ?
6. Give an example to the number which rational but not an integer?
7. Find an irrational number between 2/3 and 3/4?
8. Statement A: All integers are rational numbers’

Statement B: ‘0’ is rational and also irrational number.

Which statement(s) is/are true?

1. Subtract (4 – 3) from (7 + 6)?
2. Define a surd?

**Answer all questions. Each question carries 1 mark. 4 × 1 = 4M**

1. Expand ( – 3)².
2. Explain with an example how irrational numbers differ from rational numbers?
3. Sravan said, “The numbers which are in p/q form are called Rational numbers”. Do you agree with him? Justify.
4. When do we celebrate π day and why?

**Answer all questions. Each question carries 2 marks. 4 × 2 = 8M**

1. Simplify 4 - 3 + 2?
2. Find the value of up to 3 decimal places?
3. Find the value of , if = 1.732?
4. The length and breadth of a rectangle are (3 + 2) and (5 - ) respectively. Find its area and perimeter?

**Answer all questions. Each question carries 4 marks. 2 × 4 = 8M**

1. If = a - b, then find the values of ‘a’ and ‘b’?

Or

If x = and y = then find x² - y²?

1. Visualize 4.386 on the number line, using successive magnification?

Or

Locate on number line?