Class-IX   Test-1
         MATHS
 Date 6/05/2020
Time-60min.   MM-60
Note-no.of question-10
and each question carry 5 marks

1) Explain rational and irrational number and also give the meaning of terminating and repeating decimal with example.

2) Find five rational number lying between 1/3&1/2.

3) Express each of the following as a fraction in simplest form:

0.33333333.......

1.324324324.......

1.2355555555555......

4) Represent $\sqrt{5}$ on number line.

5) Give the definition of polynomial and also describe the types of polynomial with example.

6) Explain remainder theorem and factor theorem. Give the derivation and statement.

7) By using heron's formula prove that the area of equilateral triangle is $\sqrt{3}a^2/4$, where is the side of triangle.

8) What is complementary and supplementary angles. explain with example.

9) find the value of a for which (x+a) is a factor of the polynomial

$f(x)=x^3+ax^2-2x+a+6$.

10) Factorise the given polynomials:

$x^2+11x+30, 2x^2+3\sqrt{3}x+3$

$8a^2-27ab+9b^2, 6-x-x^2$

$\sqrt{2}x^2+3x+\sqrt{2}$