Paper Maths   Class10[th]

Total marks:**20**   **Time 40 marks**

1. Question 1-8 Each is of 1 marks and questions 9-10 is of 2 marks.

2. Question 11-12 Each is of 4 marks

Parts A

1. $\sqrt{5}-2-3$ is ………………number.

(a)a rational   (b) irrational   (c) whole number   (d) interger

2. The decimal expension of $\frac{5}{6}$ …………

(a) Terminating   (b) non terminating   (c) non terminating and non repeating (d) none of these

3. If HCF of two numbers is 1,then the two numbers are called………

(a) Prime   (b) composite (C) co-prime   (d) irrational

4. Which of the following is polynomial?

 (a) x^2+5x (b) $\sqrt{x} +\frac{1}{\sqrt{x}}$ (c) $x^{\frac{1}{2}}+1$ (d) $\frac{1}{x}+5$

5. What is the maximum number of zeroes of a cubic polynomial?

 (a) 0   (b) 1   (c) 2   (d) 3

6. What is the value of k so that the pair of linear equation $kx - y = 2$ and $6x - 2y = 3$ have unique solution?

a) k = 3   b) k ≠ 3   c) k ≠ 0   d) k = 0

7. When the graph of linear equations are parallel, then the solution of equation have

(a) unique solution   (b) no solution   (c) infinite number of solution   (d) four solution

8. What is the probability of getting a head one a coin is tossed once?

 (a) 0   (b) 1   (c) $\frac{1}{2}$ (d) $\frac{2}{1}$

9. Find the HCF and LCM of 12,15,and 21.

10. Find the zeroes of the quadratic polynomial $x^2+7x+10$.
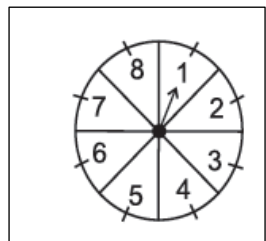
Part B

11. The difference between two numbers is 26 and one number is three times the other. Find them.

OR

 Solve the system of linear equation   graphically   x+3y=6 , 2x-3y=12

12. A game of chance consists of spinning an arrow which comes to rest pointing at one
 of the numbers 1,2,3,4,5,6,7,8 and these are equally likely outcomes.

What is probability that it will point at

 (1) 8 ? (2) an odd numbers?

(3) a number greater then 2?   (4) a number less then 9?

OR

One card is drawn from a well-shuffled deck of 52 cards.Match the columns for probability of getting

Queen of a diamond	12/13
A red face card	1/13
An ace	3/26
Not an ace card	1/52