

## Mathematics 10th Class English Medium Online Test

Sr	Questions	Answers Choice
1	The nature of roots in equation $7x^2+8x+1=0$ is:	A. Rational and unequal B. Irrational and unequal C. Rational and equal D. Irrational and equal
2	If $a = -2$ , $b = -1$ and $c = -1$ , then discriminant is equal to:	A. 17 B. -17 C. -7 D. 7
3	The discriminant of $x^2+8x+16=0$ :	A. 4 B. 3 C. 2 D. 0
4	Identify the equation whose roots are imaginary and unequal:	A. $2x^2-x+1=0$ B. $x^2+8x+16=0$ C. $3x^2+4x+2=0$ D. $x^2-7x+7=0$
5	The nature of the root of equation $x^2-5x+5=0$	A. Rational and equal B. Irrational and unequal C. Irrational and equal D. Rational and unequal
6	If $b^2-4ac < 0$ , then roots are:	A. Unreal B. Imaginary C. Real D. Unequal
7	If $b^2-4ac = 0$ , then roots are:	A. Rational and equal B. Irrational and equal C. Irrational and unequal D. Rational and unequal
8	If $b^2-4ac > 0$ and is not a perfect square, then roots are:	A. Rational and unequal B. Irrational and equal C. Rational and equal D. Irrational and unequal
9	If $b^2-4ac>0$ and is a perfect square, then roots are:	A. Rational and equal B. Rational and unequal C. Irrational and equal D. Irrational and unequal
10	The discriminant of quadratic equation is:	B. $b^2-4ac$ C. $-b^2+4ac$
11	If $a = 2$ , $b = -7$ , $c = 1$ , then the value of $b^2-4ac$ is:	A. 37 B. 39 C. 41 D. 42
12	The discriminant of $x^2-3x+3=0$ is:	A. -3 B. 3 C. -2 D. 2
13	if $a=1$ , $b=-3$ and $c= 3$ , then discriminant is:	A. 3 B. -2 C. 2 D. -3
14	The discriminant of $2x^2-7x+1=0$ is:	A. 41 B. 45 C. 43 D. 47
15	The nature of roots depends on the value of:	A. $-b+4ac$ B. $b^2-4ac$ C. $b^2-4ac$ D. $-b+4ac$