

Mathematics 10th Class English Medium Unit 2 Online Test

Sr	Questions	Answers Choice
1	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. $x^2 - 7x + 7 = 0$
2	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
3	If $b^2 - 4ac < 0$, then roots are:	A. Unreal B. Imaginary C. Real D. Unequal
4	If $b^2 - 4ac = 0$, then roots are:	A. Rational and equal B. Irrational and equal C. Irrational and unequal D. Rational and unequal
5	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
6	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
7	The discriminant of quadratic equation is:	B. $b^2 - 4ac$ C. $-b^2 + 4ac$
8	If $a = 2$, $b = -7$, $c = 1$, then the value of $b^2 - 4ac$ is:	A. 37 B. 39 C. 41 D. 42
9	The discriminant of $x^2 - 3x + 3 = 0$ is:	A. -3 B. 3 C. -2 D. 2
10	if $a=1$, $b=-3$ and $c=3$, then discriminant is:	A. 3 B. -2 C. 2 D. -3
11	The discriminant of $2x^2 - 7x + 1 = 0$ is:	A. 41 B. 45 C. 43 D. 47
12	The nature of roots depends on the value of:	A. $-b + 4ac$ B. $b^2 - 4ac$ C. $b^2 - 4ac$ D. $-b + 4ac < 0$
13	A quadratic equation has:	A. Two roots B. Three roots C. Four roots D. Five roots
14	The expression " $b^2 - 4ac$ " of a quadratic equation is called:	A. Determinant B. Redicand C. Discriminant D. Index
15	Product of roots of equation $5x^2 + 3x - 9 = 0$:	