Theory of Quadratic Equations

Sr	Questions	Answers Choice
1	Question Image	
2	The Discriminant of $ax^2+bx+c=0$ is:	A. b²-4ac B. b²⁺4ac C. -b²⁺4ac D. -b²-4ac
3	Question Image	A. P(Product of the roots) B. S (Sum of the roots) C. D (Difference of the roots) D. R (Ratio of the roots)
4	A quadratic equation has:	A. Two roots B. Three roots C. Fourroots D. Fiveroots
5	Question Image	
6	Synthetic division is simply a short cut of:	A. H.C.F B. L.C.M C. Long division method D. Factorization
7	Question Image	
8	The nature of the roots of equation $ax^2+bx+c=0$, is determined by:	A. Sum of the roots B. Product of the roots C. Synthetic division D. Discriminant
9	Question Image	A. -2 B. 2 C. 4 D. -4
10	The nature of the root of equation $x^2-5x+5=0$	A. Rationaland equal B. Irrationaland unequal C. Irrationaland equal D. Rationaland unequal
11	If $b^2-4ac>0$ and is a perfect square, then roots are:	A. Rational and equal B. Rationaland unequal C. Irrationaland equal D. Irrationaland unequal
12	If a = 2, b = -7, c = 1, then the value of b^2-4ac is:	A. 37 B. 39 C. 41 D. 42
13	Roots of following equation are: $9x^2-4x+1=0$:	A. Real, Equal B. Real, Unequal C. Imaginary D. Irrational
14	If a = -2, b = -1 and c = -1, then discriminant is equal to:	A. 17 B. -17 C. -7 D. 7
15	Sum roots of $4x^2-3x+6=0$:	
16	The nature of roots depends on the value of:	A. -b+4ac B. b²+4c C. b²-4ac D. -b+4ac²
17	The product of roots, of equation $5x^2+(7-2m)\ x + 3 = 0$ will be:	
18	Question Image	B. 1 A. 0

19	Product of cube roots of unity is:	B. 1 C. -1 D. 3
20	Question Image	A. 9 B. 7 C. 5 D. 3