Theory of Quadratic Equations

Sr	Questions	Answers Choice
1	If a = 7, b = 8 and c = 1 then b^2-4ac is equal to:	A. 33 B. 34 C. 35 D. 36
2	If (x+1)(7x+1) = 0 then x is equal to:	
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	Sum of the roots of the equation $3x^2$-5x+7=0:	B. 5+3 D. 5³
5	If b^2-4ac > 0, but not a perfect square then roots of ax^2+bx+c=0 are:	A. Imaginary B. Rational C. Irrational D. None of these
6	Product of cube roots of unity is:	A. 0 B. 1 C. -1 D. 3
7	Synthetic division is simply a short cut of:	A. H.C.F B. L.C.M C. Long division method D. Factorization
8	Question Image	
9	The nature of roots in equation $7x^2$+8x+1=0 is:	A. Rational and unequal B. Irrational and unequal C. Rationaland equal D. Irrationaland equal
10	Find k, if the roots are equal in (k+3)x^2-2(k+1)x-(k+1)=0:	A. 2, -1 B. -2,-1 C. -2,1 D. 2,1
11	Product of roots of equation $5x^2$+3x-9=0:	
12	The discriminant of quadratic equation is:	B. b²-4ac C. -b²+4ac
13	Question Image	
14	Question Image	
15	The discriminant of $2x^2$-7x+1= 0 is:	A. 41 B. 45 C. 43 D. 47
16	If b^2-4ac = 0, then roots are:	A. Rationaland equal B. Irrationaland equal C. Irrationaland unequal D. Rational and unequal
17	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
18	Question Image	
19	Question Image	
20	If b^2-4ac<0, then the roots of ax^2+bx+c=0 are:	A. Irrational B. Rational C. Imaginary D. None of these

D. None of these