Factorization and Algebraic Manipulation

Sr	Questions	Answers Choice
1	H.C.Fof a3 +b3 and a2-ab+b2	A. a+b B. a2-ab-b2 C. (a-b)2 D. a2 +b2
2	Factors of x4 - y4	A. (x-y)(x+y)(x2+y2) B. (x-y)(x2+y2) C. (x-y)(x+y)(x2-y2) D. (x+y)(x2+y2)
3	(x+y)(x2-xy+y2)=	A. x3-y3 B. x3+y3 C. (x+y)3 D. (x-y)3
4	Factors of x4 - 16 is	A. (x-2)2 B. (x-2)(x+2)(x2+4) C. (x-2)(x+2) D. (x+2)2
5	The prodcut of two polynomial is equal to the .....of their H.C.F and L.C.M	A. Sum B. Difference C. Product D. Quotient
6	Find m so that x2 +8 x +m is a complete square.	A. 8 B. -8 C. 4 D. 16
7	The HCF of a^3 b^3 and ab^2 is	A. a³b³ B. ab² C. a²b² D. a²b
8	The LCM of $16x^2$, 4x and 30 xy is	A. 480 x³ y B. 240 xy C. 240 x² y D. 120 x⁴ y
9	Factors of 8x3 -y3 are	A. (2x +y)(4x2+2xy-y2) B. (2x+y)(4x2 -2y +y2) C. (2x-y)(4x2-2xy+y2) D. (2x-y)(4x2 +2xy+y2)
10	The square root of x^2 -6x +9 is	
11	Factors of 3x2 -x -2 are	A. (x+1)(3x-2) B. (x+1)(3x+2) C. ((x-1)(3x-2) D. (x-1)(3x+2)
12	Factorization of x^3 +3x^2+3x 1 is	A. (x +1)3 B. (X-1)3 C. (x+1)(x2+x+1) D. (x-1)(x2-x+1)
13	The factors of $4x^2$ -12 y +9 are	A. (2x +3)2 B. (2x -3)2 C. (2+3x)(2-3x)2 D. (2x-3)(2x+3)
14	What will be added to complete the squae of $9a^2$ -12 ab?	A. -16 b2 B. 16 b2 C. 4 b2 D. -4b2
15	Cubic polynomial has degree	A. 1 B. 2 C. 3 D. 4
16	H.C.F. of x3 y -xy and x5y2-x2y5 is	A. xy (x2-y2) B. xy(x-y) C. x2y2(x-y)

		D. xy(x3-y3)
17	L.C.M.of a2-b2 and a4 -b4 is	A. a2+b2 B. a2-b2 C. a4 -b4 D. a-b
18	L.C.M of 15 x 2 z, 45 x y2 and 30 yz2 is	A. 90 xyz B. 90 x2 y2 z2 C. 90 x3y3z3 D. 15 x2 yz
19	The squiare root of x2 -6x +9 is	C. x-3 D. x + 3
20	H.C.F. of a2-b2 and a3 -b3 is	A. a-b B. a+b C. a2 +ab+b2 D. a2-ab+b2