Factorization and Algebraic Manipulation

Sr	Questions	Answers Choice
1	The factor of x^2 - 5 x + 6 are	A. x+1 , x-6 B. x-2, x-3 C. x+6,x-1 D. x+2,x+3
2	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
3	(x+y)(x2-xy+y2)=	A. x3-y3 B. x3+y3 C. (x+y)3 D. (x-y)3
4	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)
5	L.C.M.of a2-b2 and a4 -b4 is	A. a2+b2 B. a2-b2 C. a4 -b4 D. a-b
6	The squiare root of x2 -6x +9 is	C. x-3 D. x + 3
7	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)
8	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)
9	H.C.F. of a2-b2 and a3 -b3 is	A. a-b B. a+b C. a2 +ab+b2 D. a2-ab+b2
10	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
11	Let 5 x2 - 17 xy - 12y2 = A x B if A = (x -4y) then B is.	A. (5x+3y) B. (5x-3y) C. (5x+3y) D. (5x-4y)
12	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)
13	The factorization of 12 x +36 is	A. 12(x+3) B. 12(3x) C. 12(3x+1) D. x(12+36x)
14	What shod be added to complee the square of y4 +81	A. 18 y2 B. -18y2 C. 9 y2 D. 18y
15	Product of LCM and HCF =.....of two polynomial	A. Sum B. Difference C. Product D. Quotient
		A. 90 xyz

16	L.C.M of 15 x 2 z, 45 x y2 and 30 yz2 is	B. 90 x2 y2 z2 C. 90 x3y3z3 D. 15 x2 yz
17	H.C.Fof a3 +b3 and a2-ab+b2	A. a+b B. a2-ab-b2 C. (a-b)2 D. a2 +b2
18	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)
19	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)
20	The degree of quadratic polynomia is	A. 1 B. 2 C. 3 D. -2