Factorization and Algebraic Manipulation

Sr	Questions	Answers Choice
1	Find m so that x2 +8 x +m is a complete square.	A. 8 B. -8 C. 4 D. 16
2	Cubic polynomial has degree	A. 1 B. 2 C. 3 D. 4
3	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
4	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
5	H.C.Fof a3 +b3 and a2-ab+b2	A. a+b B. a2-ab-b2 C. (a-b)2 D. a2 +b2
6	What will be added to complete the squae of $9a^2$ -12 ab?	A. -16 b2 B. 16 b2 C. 4 b2 D. -4b2
7	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)
8	The HCF of a^3 b^3 and ab^2 is	A. a³b³ B. ab² C. a²b² D. a²b
9	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)
10	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)
11	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)
12	One of factors of x3 -27 is	A. x-3 B. x+3 C. x²-3x+9 D. Both a and c
13	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)
14	What shod be added to complee the square of y4 +81	A. 18 y2 B. -18y2 C. 9 y2 D. 18y
15	H.C.F of 35 a2b2 and 20 a3b3 is	A. 5 a2 b2 B. 20 a 3 b3 C. 35 a5 b5 D. 5 ab

16	The squiare root of x2 -6x +9 is	C. x-3 D. x + 3
17	(x+y)(x2-xy+y2)=	A. x3-y3 B. x3+y3 C. (x+y)3 D. (x-y)3
18	The square root of x^2 -6x +9 is	
19	The LCM of $(a-b)^2$ and $(a-b)^4$	A. (a-b)2 B. (a-b)3 C. (a-b)4 D. (a-b)6
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