Factorization and Algebraic Manipulation

Sr	Questions	Answers Choice
1	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)
2	L.C.M.of a2-b2 and a4 -b4 is	A. a2+b2 B. a2-b2 C. a4 -b4 D. a-b
3	What will be added to complete the squae of $9a^2$ -12 ab?	A. -16 b2 B. 16 b2 C. 4 b2 D. -4b2
4	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)
5	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)
6	The factorization of 12 x +36 is	A. 12(x+3) B. 12(3x) C. 12(3x+1) D. x(12+36x)
7	What shod be added to complee the square of y4 +81	A. 18 y2 B. -18y2 C. 9 y2 D. 18y
8	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)
9	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
10	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)
11	Product of LCM and HCF =.....of two polynomial	A. Sum B. Difference C. Product D. Quotient
12	(x+y)(x2-xy+y2)=	A. x3-y3 B. x3+y3 C. (x+y)3 D. (x-y)3
13	H.C.Fof a3 +b3 and a2-ab+b2	A. a+b B. a2-ab-b2 C. (a-b)2 D. a2 +b2
14	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
15	H.C.F.of m-2 and m2+m -6 is	A. m+2 B. m+3 C. m2+m-6 D. m-2

16	H.C.F. of a2-b2 and a3 -b3 is	A. a-b B. a+b C. a2 +ab+b2 D. a2-ab+b2
17	The squiare root of x2 -6x +9 is	C. x-3 D. x + 3
18	One of factors of x3 -27 is	A. x-3 B. x+3 C. x²-3x+9 D. Both a and c
19	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
20	The HCF of a^3 b^3 and ab^2 is	A. a³b³ B. ab² C. a²b² D. a²b