GAT-A Business and Engineering Quantitative

Sr	Questions	Answers Choice
1	If A > B an C < 0, then which of the following is not true ?	A. AC < BC B. A + C > B + C C. A - C < B - C D. All of the above
2	If a + b > 7 and a - b > 5, then which of the following gives all possible values of a and only possible value of a ?	A. a > 6 B. a < 5 C. a > 4 D. a < 7
3	If a > 0, b > 0 and a - b < 0, then ?	A. a < b B. a + b <0 C. a > b D. b - a < 0
4	If $xy > 0$ and $x < 0$, which of the following negative ?	A. -x B. -y C. y D. xy
5	If x and y are positive integers and $x^2 + 2y^2 = 41$, $2x^2 + y^2 = 34$, then x^2 =	A. 6 B. 8 C. 75 D. 9
6	If $4^{x+5} = 8^{x-1}$, what is the value of x ?	A. 3/5 B. - 5/3 C. - 3/5 D. 4
7	If x is a positive number and x2 + 36 = 100, what is the value of x ?	A. 6 B. 8 C. 14 D. 64
8	If $1/x-y = 7$, then x =	A. x + 1/7 B. x - 1/7 C. 1/7 - x D. x/7 -1
9	If $81^{10} = 3^{x-7}$, what is the value of x ?	A. 47 B. 27 C. 51 D. 14
10	If $2x - 3 = 15$, what is the value of $(2x - 3)^2$?	A. 81 B. 227 C. ±225 D. 225
11	If $1/2\ x + 1/4\ x + 1/8\ x = 22$, what is the value of x ?	A. 88 B. 44 C. 1 D. 24
12	If at - b = c - dt, what is the value of t in terms of a, b, c and d ?	A. b-c/a-d B. a/b C. c/d D. b+c/a+d
13	If $x - 5 = 9$, what is the value of $x^2 - 5$?	A. 196 B. 191 C. 16 D. 11
14	If $3x + 17 = 9 - x$, what is the value of x ?	A. 2 B. 3 C. -2 D. -3
15	If $5x + 12 = 44$, what is the value of $5x - 12$?	A. 24 B. 32 C. 20 D. 22

16	If $3x + 9 = 18$, what is the value of $x + 3$?	A. 3 B. 6 C. -3 D. 36
17	$3x^2$ - 27/x-3 and (x>0), is:	A. less than 2x+9 B. equal to 2x + 9 C. greater than 2x + 9 D. cannot find
18	(a + b)(a - b) =	A. a(a - b) - b(a - b) B. a(b - a) + b(a - b) C. a(a + b) - b(b + a) D. a(a - b) + b(b - a)
19	If a = -5 and b = 3 then $-a^2 b^3$ is:	A. less than 0 B. equal to 0 C. greater than 0 D. options B and C
20	If $x > y$, then $(x - y)(x + y)$ is :	A. equal to (x-y) (x-y) B. less than (x-y (x-y) C. greater than (x-y) (x-y) D. options A and C
21	If $x < 0$, then $-3x^2$ is:	A. less thean (-3x) ² B. greater than (-3x) ² C. equal to (-3x)² D. greater than or equal to (- 3x)²
22	If $p^2 - q^2 = 48$ and p - q = 12, what is the average of p and q ?	A. 4 B. 6 C. 2 D. 12
23	If $1/x + 1/y = 1/z$ and $xy = z$, what is the average of x and y ?	A. 1/2 B. 1 C. x + y + z/3 D. x + y + z/2
24	The value of $(5x + 6)(x + 12) - (5x - 6)(x + 3)$ is:	A. 2(5x² + 9x) B. 14 C. 4 D. 22
25	If $x^2 + y^2 = 9$ and $(x - y)^2 = 3$, what is the value of xy ?	A. 16 B. 9 C. 6 D. 3
26	What is the value of $x^2 + 14x + 24$, when x=854 ?	A. 1000 B. 100,000 C. 741,296 D. 742,398
27	The average of the polynomials, $2x^2 + 5x - 6$, $5x^2 - 5x - 6$ and $30 - 7x^2$ is:	A. 14 B. 18 C. 6 D. 5x
28	If $x^2 - y^2 = 16$ and $x^2 + y^2 = 34$, which of the following could be the value of xy ? i. 15 ii. -15 iii. 45	A. only 1 B. only 2 C. 1 and 2 only D. 3 only
29	If $x = 235$ and $y = 117$, then $x^2 - y^2/x-y$ = ?	A. 118 B. 100 C. 115 D. 352
30	Which of the following is the average of $x^4 - 20$, $40 - x^4$, and $3x + 4$?	A. x⁴ - 24 B. x + 8 C. x⁴ + 3x + 24 D. x + 24