Quantitative Test for HEC HAT 1 Engineering & IT

Sr	Questions	Answers Choice
1	If it takes 10 minutes to walk 3/4 mile, how many minutes will it take to walk the rest of the mile?	A. 2 1/3 B. 13 1/3 C. 4 2/7 D. 30
2	A candy recipe calls for 5 parts milk, 4 parts cocoa, 4 parts syrup, 2 parts sugar, and 1 part butter. If you use 8 ouncres of milk, how many ounces of candy mixture can you make?	A. 25 3/5 B. 5 3/5 C. 20 D. 128
3	A car that gets 15 miles per gallon of gasoline can travel 250 miles on a full tank. If the same car got 20 miles per gallon, how many miles could it travel on a full tank?	A. 300 B. 750 C. 250 3/5 D. 333 1/3
4	If 10 tractors are needed to plow a field in 4 hours, how many tractors are needed to plow the field in 5 hours?	A. 32 B. 4 C. 16 D. 8
5	If apples cost 3 for 37 cents, find the cost of 1 3/4 dozen apples.	A. 111 cents B. 159 cents C. 259 cents D. 211 cents
6	How many cents will r books cost if t books cost m dollars?	A. 100mr / t B. mr / 100 C. 100t / mr D. m / 100t
7	How many miles are there between two cities if the distance is represented by a 2.4 inch line on a map having a scale of 1 inch to 8 miles?	A. 19.0 B. 12.8 C. 8.5 D. 38
8	Find the value of x if 3:b=x:c.	A. 3b/c B. c/3b C. 2c/3b D. 3c/b
9	If a train travels 5/6 miles in 1 1/4 minutes, how many miles will it travel in 1 hour?	A. 20 miles B. 50 miles C. 40 miles D. 30 miles
10	Find the ratio of 18 inches to 2 yards.	A. 3/4 B. 1/4 C. 1/5 D. 2/5
11	If 'x' and 'y' are positive and 1/x=3+1/y is 'x' greater than 'y'?	A. Yes B. No C. It cannot be determined D. They are equal
12	If 4x-y=13 and 3x-2y=7 then what is the average of 'x' and 'y'?	A. 4 B. 3 C. 2 D. 6
13	If $x=7y+3$ and $z=49y^2$ then what is 'z' in terms of x?	A. $X2$ B. x^2-3 C. $(x-3)^2/7$ D. None
14	Ay-b=c,dy what is 'y' in terms of 'a', 'b' and 'c'?	A. (c+b) / (a+d) B. (c-b) / (a+d) C. (c-b) / (a+d) D. (c+b) / (a-d)
15	Ay-b=c-dy what is 'y' in terms of 'a', 'b' and 'c'?	A. 30 B. 38/2 C. 38/3 D. 38/5

16	If 3x+5y=10 and 3y+5x=30 then average if 'x' and 'y' is?	A. 3/2 B. 4 C. 5/2 D. 7/2
17	1/x=1/y+1/z then 'x' in terms of 'y' and 'z' is given by?	A. (y+z) / (y-z) B. yz / (y+z) C. (y+z)/ yz D. 1/z-1/y
18	The value of $(x+y)^2 - (x-y)^2$ is?	A. 4 B. x^2+y^2 C. 4xy D. -4xy
19	The value of $(x+y)^2 + (x-y)^2$ is?	A. 4 B. $2(x^2+y^2)$ C. 4xy D. -4xy
20	When $3x^2+5x+7$ is subtracted from x^2+8x+3 the result is?	A. $5x^2-3x+4$ B. $3x-2x^2-4$ C. $x^2+8x+10$ D. $11x^2+3x+10$
21	$(x+y)^2=25$ and $x^2+y^2=13$ then xy is equal to?	A. 16 B. 20 C. 18 D. 6
22	If $(x+1/x)^2=96$ what is the value of $x^2 + 1/x^2$?	A. 94 B. 98 C. 100 D. 90
23	If $a^2 - b^2 =36$ and a-b =12 then average of 'a' and 'b' is?	A. 3 B. 12 C. 6 D. 3/2
24	The value of $\{0.5^4 - 0.4^4\} / \{0.5^2 + 0.4^2\}$ is?	A. 0.9 B. 0.09 C. 0.19 D. 0.31
25	2x2y when multiplied with $x^2 + y^2$ gives ?	A. $2x^2y^3 + 2xy^3$ B. $2x^4y+ 2x^2y^3$ C. $2xy^2+ 2x^2y$ D. $2xy^3+ 2x^3y$
26	If 2x + y + b11 nad 3x + 2y =17 then y is?	A. 1 B. 5 C. 6 D. 4
27	The value of $x^2 + 5x +6$ at x=2 is:	A. 10 B. 14 C. 18 D. 20
28	If x + 3y =7 and 2x + y =5 then value x/y is?	A. 1/2 B. 1/3 C. 2/5 D. 8/9
29	If x + 2y =11 and x + y =10 the value of y is:	A. 1 B. 2 C. 3 D. 4
30	x + y =17 and x=2, then value of y?	A. 13 B. 15 C. 19 D. 10
31	1.02 - 0.02 + ? = 1.842	A. 0.222 B. 0.842 C. 2 D. None
32	$0.007 \div \sqrt{0.000049}$	A. 1 B. 0.0049 C. 2 D. 7

		D. 7
33	1 3/4 - 1 3/5 =?	A. 0.16 B. 0.2 C. 0.15 D. 13/20
34	72 + 679 + 1439 + 537 + ?=4036	A. 1309 B. 1208 C. 2308 D. 2423
35	$(242 - 17)^2 - (7-5)^2$=?	A. 49000 B. 49200 C. 94200 D. 49400
36	If x% of 60 =48, then x=?	A. 80 B. 60 C. 90 D. 40
37	25% of 4÷ 4% of 25 =?	A. 1 B. 3 C. 0 D. 6
38	$0.027\sqrt{90}$ = ?	A. 0.0003 B. 0.03 C. 3 D. 0.00003
39	$(60)^2$=? x 72	A. 36 B. 3600 C. 40 D. 50
40	$x\sqrt{0.09}$ = 3: x =?	A. 10 B. 1/3 C. 1/10 D. 1