Quantitative Reasoning Algebra Test For Nat

Sr	Questions	Answers Choice
1	If (p-3)(p+5)>(p-3)(p+8), what is the best description of p ?	A. p = 3 B. - 8 < p < - 5 C. p = { } D. p < 3
2	If a machine can place a cap on a bottle of soda every 0.8 seconds, how many bottles can be capped in 2 hours ?	A. 8000 B. 9000 C. 300 D. 900
3	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
4	x + y =17 and x=2, then value of y?	A. 13 B. 15 C. 19 D. 10
5	Four people are asked to stand in a straight line. In how many different orders can they line up ?	A. 12 B. 16 C. 24 D. 6
6	If $(x+1/x)^2$=96 what is the value of $x^2 + 1/x^2$?	A. 94 B. 98 C. 100 D. 90
7	Four people are asked to stand in a straight line. In how many different orders can they line up?	A. 12 B. 16 C. 24 D. 6
8	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
9	The average of x,y,z and 40 is 10. What is the average of x,y, adn z.	A. 10 B. 0 C. 2 D. 15
10	A man bought 27 packets of Chilli Milli at$280 wach, 9 packets of Chilli Milli at$320 each and 6 packets of Chilli Milli at$360 each. Find the average price per packet of Chilli Milli.	A. $250 B. $300 C. $400 D. $380
11	The population of a city increased in two years from 25,000 to 30,000; find the percent increase during the time.	A. 10% B. 20% C. 40% D. 5%
12	How many tens are equal to the number whose hundreds, tens, and units digits are a, b, and c, respectively ?	A. b C. 10a+b+c
13	What is the number , 5% of which is 10?	A. 200 B. 100 C. 50 D. 10
14	Which of the following is the sum of two consecutive prime numbers ?	A. 66 B. 52 C. 41

		D. 29
15	If p is a negative integer and $p^2+11p=t$, a value of t could be:	A. 12 B. 18 C. -18 D. 11
16	How many tens are equal to the number whose hundreds, tens, and units digits are a,b,c, respectively?	A. b B. a+1/10b+1/100c C. 10a+b+c D. 10a+b+c/10
17	How many integers from 28 to 98, both exclusive are exactly divisible by 7?	A. 9 B. 11 C. 12 D. 8
18	2x2y when multiplied with $x^2 + y^2$ gives ?	A. 2x²y³ + 2xy³ B. 2x⁴y+ 2x²y³ C. 2xy²+ 2x²y D. 2xy³+ 2x³y
19	Which of the following is the sum of two consective prime numbers?	A. 66 B. 52 C. 41 D. 29
20	In a school there are 400 students , of whom 70% are boys. What is the number of girls?	A. 130 B. 200 C. 280 D. 2800