

## Quantitative Reasoning Algebra Test For Nat

| Sr | Questions  | Answers Choice   |
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| 1  | If $p$ is a negative integer and $p^2 + 11p = t$ , a value of $t$ could be   | A. 12<br>B. 18<br>C. -18<br>D. 11  |
| 2  | If Myra had bowling scores of $b + 6$ , $b - 2$ , $b + 4$ , and $b - 5$ , what must she score in the next game to get an overall average of $b + 2$ ?                  | A. $b + 7$<br>B. $b - 3$<br>C. $b + 3$<br>D. $b - 7$                                     |
| 3  | The population of 8 villages is 900, 750, 1100, 1050, 835, 1250, 555, and 630. Find the population of Ninth village if the average population of Nine villages is 900. | A. 1200<br>B. 1050<br>C. 1030<br>D. 7070   |
| 4  | A clock gain 8 minutes every $x$ hours. How many hours will the clock gain in 3 days?  | A. $576/x$<br>B. $48/5x$<br>C. $24/x$<br>D. $576/5x$                                     |
| 5  | What is the number, 5% of which is 10?   | A. 200<br>B. 100<br>C. 50<br>D. 10   |
| 6  | Out of the 44 boys in a class 9 are of the age of 10, 15 at the age of 9, and the rest are at the age of 8. Find their average age.                                    | A. 7.85<br>B. 8.75<br>C. 12.2<br>D. 14.35  |
| 7  | Find the arithmetic mean of 25.2, 13.5, 18.5 and 34.8  | A. 13<br>B. 23<br>C. 27<br>D. 5  |
| 8  | If 7 apples cost $y$ cents, how many apples will $x$ dollars buy?  | A. $x/7y$<br>B. $7x/y$<br>C. $7x/100y$<br>D. $700x/y$                                    |
| 9  | $x + y = 17$ and $x = 2$ , then value of $y$ ?   | A. 13<br>B. 15<br>C. 19<br>D. 10   |
| 10 | Four people are asked to stand in a straight line. In how many different orders can they line up?  | A. 12<br>B. 16<br>C. 24<br>D. 6  |
| 11 | If $x + 3y = 7$ and $2x + y = 5$ then value $x/y$ is?  | A. $1/2$<br>B. $1/3$<br>C. $2/5$<br>D. $8/9$   |
| 12 | $2x^2y$ when multiplied with $x^2 + y^2$ gives?  | A. $2x^2y^2 + 2xy^3$<br>B. $2x^4y + 2x^2y^3$<br>C. $2xy^2 + 2x^2y$<br>D. $2xy^3 + 2x^3y$ |
| 13 | If $4x - y = 13$ and $3x - 2y = 7$ then what is the average of ' $x$ ' and ' $y$ '?  | A. 4<br>B. 3<br>C. 2<br>D. 6   |
| 14 | If $x = 7y + 3$ and $z = 49y^2$ then what is ' $z$ ' in terms of $x$ ?   | A. $x^2$<br>B. $x^2 - 3$<br>C. $(x - 3)^2$<br>D. None                                    |

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| 15 | How many cents will $r$ books cost if $t$ books cost $m$ dollars?  | A. $100mr / t$<br>B. $mr / 100$<br>C. $100t / mr$<br>D. $m / 100t$   |
| 16 | In Myra had bowling scores of $b+6$ , $b-2$ , $b+4$ , and $b-5$ . what must she score in the next game to get overall average of $b+2$ ?   | A. $b+7$<br>B. $b-3$<br>C. $b+3$<br>D. $b-7$                         |
| 17 | How many tens are equal to the number whose hundreds, tens, and units digits are $a, b, c$ , respectively?   | A. $b$<br>B. $a+1/10b+1/100c$<br>C. $10a+b+c$<br>D. $10a+b+c/10$     |
| 18 | $t$ is an integer greater than 5. The expression that must represent an odd integer is   | A. $t(t+1)$<br>B. $3t-1$<br>C. $t^{>2}$<br>D. $2t-3$                 |
| 19 | A man spent 10% of his money .After spending 60% of the reminder he has Rs.72 left. How much had he in the start?  | A. 10<br>B. 100<br>C. 200<br>D. 400                                  |
| 20 | In solving an arithmetic example, Donna, by mistake multiplied by 6 instead of dividing by 6. If her anser was $13 \frac{1}{5}$ , what should be the correct answer to the example ? | A. $2 \frac{8}{11}$<br>B. $5/66$<br>C. $2 \frac{1}{5}$<br>D. $11/30$ |