

NAT I Engineering Quantitative

Sr	Questions	Answers Choice
1	An angle is 30° more than one-half its complement. Find the angle.	A. 20° B. 30° C. 50° D. 60°
2	Change $27/7$ to a mixed number.	A. $6 \frac{1}{3}$ B. $7 \frac{1}{2}$ C. $3 \frac{6}{7}$ D. $2 \frac{1}{7}$
3	The average of x , y , z and 40 is 10 . What is the average of x , y , and Z .	A. 10 B. 0 C. 2 D. 15
4	The average height of five men is 68 inches. If one man is 70 inches tall and three other have an average of 67 inches, the height of the fifth man, in inches, is:	A. 68 B. 69 C. 70 D. 71
5	One-sixth of a day is what part of the time between 3 p.m. Monday and 3 p.m. Thursday of the same week ?	A. $1/10$ B. $1/18$ C. $1/15$ D. $1/12$
6	$224 \sqrt{0.88} = ? \times 1122$	A. 20.02 B. 20.2 C. 19.3 D. 2.27
7	If $abc = 2$ and $a = c$ then $b =$	A. a^2 B. $1/2a$ C. $2/a^2$ D. $2-a^2$
8	Which of the following is the sum of two consecutive prime numbers?	A. 66 B. 52 C. 41 D. 29
9	How many cents will r books cost if t books cost m dollars?	A. $100mr / t$ B. $mr / 100$ C. $100t / mr$ D. $m / 100t$
10	$350 - -96 \div 18 = ?$	A. 318 B. -132 C. 328 D. 232
11	What is the sum of money, of which 6% is 18 dollars ?	A. 600 B. 200 C. 300 D. 10
12	What is the sum of money, 6% of which is 18 dollars?	A. 600 B. 200 C. 300 D. 20
13	A motion was passed by a vote of $5 : 3$. what part of the votes cast was in favor of the motion?	A. $3/5$ B. $5/8$ C. $3/8$ D. $5/3$
14	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. $11x^2 - 3x + 10$
15	The average height of a class of 14 boys is 5.3 feet. After a new boy is admitted to the class, the new average height now becomes 5.25 . What is the height of the new boy?	A. 4.55 B. 5.0 C. 6.0 D. 3.5

16	The value of $x^2 + 5x + 6$ at $x=2$ is:	A. 10 B. 14 C. 18 D. 20
17	If $abc=2$ and $a=c$ then $b=$	A. $a^{2/2}$ B. $1/2a$ C. $2/a^{2/2}$ D. $2-a^{2/2}$
18	If a pipe can fill a tank in 2 hours and another pipe can fill the same tank in 40 minutes. how much time in minutes is needed to fill the tank if both the pipes are working together?	A. 90 B. 50 C. 60 D. 30
19	The population of a city increased in two years from 25,000 to 30,000: find the increase percent during the time.	A. 10% B. 20% C. 40% D. 5%
20	If $(36)(?)(7)=21$, then ? equals	A. $21/43$ B. $1/42$ C. $1/12$ D. $1/11$