

NAT II Management Science Quantitative

Sr	Questions	Answers Choice
1	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
2	$\sqrt{256} \div \sqrt{64} = ?$	A. 1/4 B. 26/8 C. 16 D. 4
3	If $x = 7y + 3$ and $z = 49y^2$ then what is 'z' in terms of x?	A. x^2 B. $x^2 - 3$ C. $(x - 3)^2/7$ D. None
4	The value of $x^2 + 5x + 6$ at $x = 2$ is?	A. 10 B. 14 C. 18 D. 20
5	If the area of rectangle is 12, then its perimeter is	A. 6 B. 7 C. 8 D. 12 E. Cannot be determined from the given information
6	What part of an hour elapses between 10:45 a.m. and 11:09 a.m.?	A. 2/5 B. 3/5 C. 11/12 D. 2
7	The average (arithmetic mean) of $8a + 5$, $-3a$, 9 , 0 and $7a - 2$?	A. $3a + 1$ B. $3a + 3$ C. $4a + 1$ D. $4a + 4$ E. $12a + 12$
8	The annual decrease in the population of a city was 10% and the present number of inhabitants is 1620. What was the population 2 years hence?	A. 20 B. 400 C. 2000 D. 1000
9	If $2x + y = 11$ and $3x + 2y = 17$ then y is?	A. 1 B. 5 C. 6 D. 4
10	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
11	$? \times 12 = 75\% \text{ of } 336$	A. 48 B. 252 C. 28 D. 21
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	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. 19.2 B. 12.8 C. 8.5 D. 38
14	If the radius of the circle is halved, then its area	A. Remains same B. Become half C. Become quarter D. Become double E. Not changed

15 If $p = 2$, then $3^p + (p^3)^2 =$
A. 18
B. 45
C. 42
D. 70
E. 73

16 Successive discounts of 10% and 15% is equivalent to a single discount of
A. 24%
B. 24.5%
C. 23.5%
D. 22%
E. 25%

17 12 is $\frac{3}{4}$ of what number?
A. 20
B. 24
C. 16
D. 8

18 Which of the following is closest to the square root of $\frac{1}{2}$?
A. 0.7
B. 0.6
C. 0.8
D. 0.25
E. 0.5

19 A man opens a bookstall with a capital of Rs. 25000. In three months his capital amounts to rupees 27500. What is the increase percent?
A. 1%
B. 10%
C. 20%
D. 7%

20 The area of the circle is 16π . The length of the diameter of the circle is
A. 2
B. 32
C. 4
D. 16
E. 8