

## NAT II Oriental & Islamic Studies Quantitative

Sr	Questions	Answers Choice
1	If $(x + 1/x)^2 = 96$ what is the value of $x^2 + 1/x^2$ ?	A. 94 B. 98 C. 100 D. 90
2	The value of $(x + y)^2 + (x - y)^2$ is?	A. 4 B. $2(x^2 + y^2)$ C. $4xy$ D. $-4xy$
3	If $3(p + 5q) = 24$ , then what is the value of q, when $p = 3$ ?	A. 1 B. 5 C. 9 D. 3 E. 7
4	The area of the circle is $16\pi$ . The length of the diameter of the circle is	A. 2 B. 32 C. 4 D. 16 E. 8
5	A piece of fabric is cut into three sections so that the first is three times as long as the second and the second is three times as long as the third. What part of the entire piece is the smallest section?	A. $2/5$ B. $3/7$ C. $2/3$ D. $1/13$
6	$\sqrt{256} \div \sqrt{64} = ?$	A. $1/4$ B. $26/8$ C. 16 D. 4
7	$2.08 - (0.5)^2 = ?$	A. -1.20 B. 1.88 C. 1.83 D. 2.16
8	Maria's test scores were 96, 97, 86, 98 and 92. What would he need on his next test to have an average of 94?	A. 92 B. 90 C. 95 D. 100 E. 98
9	Which of the following is closest to the square root of $1/2$ ?	A. 0.7 B. 0.6 C. 0.8 D. 0.25 E. 0.5
10	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
11	$1250 \div 25 \times 0.5 = ?$	A. 25 B. 50 C. 2.5 D. 100
12	A team played 30 games of which it won. What part of the games played did it lose?	A. $1/5$ B. $5/6$ C. $6/5$ D. 5
13	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
14	12% of x = 360	A. 250 B. 100 C. 400 D. 3000

15	What is 1/5% of 5000	A. 10 B. 12 C. 16 D. 1000 E. 5000
16	$? \times 12 = 75\% \text{ of } 336$	A. 48 B. 252 C. 28 D. 21
17	A word processing operator typed 44 words per minute. After practice, the operator's speed increased to 55 words per minutes. By what percent did the operator's speed increase?	A. 25% B. 50% C. 15% D. 20%
18	If $2x + y = 11$ and $3x + 2y = 17$ then y is?	A. 1 B. 5 C. 6 D. 4
19	$1/x = 1/y + 1/z$ 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. $1/z - 1/y$
20	12 is 3/4 of what number?	A. 20 B. 24 C. 16 D. 8