

## Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	<input type="text" value="Question Image"/>	D. none of these
2	Range of $3 \cot x$ is _____	A. [-1, 1] B. [-3, 3] C. R D. None of these
3	<input type="text" value="Question Image"/>	
4	The root of the quadratic equation are	A. 3 B. 2 C. 1 D. 4
5	The integral of $3x^5 dx$ is:	A. $15x^4$ B. $x^6/2$ C. $1/6x^5$ D. $x^5/\ln 3$
6	For non-trivial solution $ A $ is	A. $A = 0$ B. $A \neq 0$ C. $ A  = 0$ D. None of these
7	<input type="text" value="Question Image"/>	A. A positive integer B. A negative integer C. A natural number D. An irrational number
8	<input type="text" value="Question Image"/>	A. 2 B. $-3/2$ C. 1 D. 0
9	One degree is denoted by	A. $1^\circ$ B. 1' C. 1" D. 1 rad
10	<input type="text" value="Question Image"/>	A. 8 B. 9 C. 10 D. 11
11	<input type="text" value="Question Image"/>	A. $n!$ B. $0!$ C. 1 D. None of these
12	<input type="text" value="Question Image"/>	
13	If a cone is cut by a plane perpendicular to the axis of the cone, then the section is a	A. parabola B. circle C. hyperbola D. ellipse
14	If $a = 2i + 2j$ , $b = 3i - j$ and $c = 4i + 5j$ , the $3b - a - 2c =$	A. $-i - 15j$ B. $i - 15j$ C. $i - 3j$ D. None of these
15	In a school there are 150 students Out of these 80 students enrolled for mathematics class. 50 enrolled for English class and 60 enrolled for Physics class The student enrolled for English cannot attend any other class but the students of mathematics and Physics can take two courses at a time find the number of students who have taken both physics and mathematics.	A. 40 B. 30 C. 50 D. 60
16	The value of the expression $3 \cos \theta + 4 \sin \theta$ lie between	A. -7 and 7 B. -25 and 25 C. -1 and 1 D. -5 and 5
17	if $a_1 = 3$ , $d = 7$ and $a_n = 59$ , then the number of terms in A.P is	A. 7 B. 9 C. 11

C. 11  
D. 13

18

A.  $\sec 3x + c$   
B.  $-\operatorname{cosec} 3x + c$

19 With usual notations  $b^2 = a^2 + c^2 - 2ac \cos$  is called\_\_\_\_\_;

A. None of these  
B. Law of sines  
C. Law of cosines  
D. Law of tangents

20

A. Rational  
B. Irrational  
C. Even  
D. Odd