

## Mathematics General Science Test Hard Mode

Sr	Questions	Answers Choice
1	Question Image	A. 10 B. 20 C. 40 D. 26
2	If the angle of a triangle are in the ratio 2:3:7, the triangle is	A. Obtuse B. Acute C. Right angle D. Isosceles
3	The point $(-5, 3)$ is the center of a circle and $P(7, -2)$ lies on the circle. The radius of the circle is	A. 2 B. 13 C. 7 D. 8
4	The perpendicular bisector of any chord of a circle	A. Passes through the centre of the cirle B. Does not pass through the centre of the circle C. May or may not pass through the centre of the circle D. None of these
5	Total number of terms in the expansion of $(a + b)^5$ + $(a - b)^5$ after simplification are	A. 3 B. 1 C. 4 D. 7
6	For which of the following ordered pairs (s, t) is $s + t > 2$ and $s - t < -3$ ?	A. (3, 2) B. (2, 3) C. (1, 8) D. (0, 3)
7	Question Image	
8	Question Image	
9	Question Image	A. Free vector B. Null vector C. Unit vector D. None of these
10	If 4 - x > 5, then	A. x > 1 B. x > -1 C. x < 1 D. x < -1
11	Question Image	A. 2 B. 1 C. 0
12	Question Image	
13	Question Image	
14	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
15	Question Image	
16	Question Image	
17	The equation of the normal to the circle $x^2 + y^2 = 25$ at(4, 3) is	A. $3x - 4y = 0$ B. $3x - 4y = 5$ C. $4x + 3y = 5$ D. $4x + 3y = 25$
18	The conic is a parabola if	A. e < 1 B. e > 1 C. e = 1 D. e = 0

9	If the sum of the roots of the equation $ax^2 - 2x + 2a = 0$ is equal to their product, then the value of a is	A. 1 B. 2 C. 3 D. 4
<u>:</u> 0	The set of the first elements of the ordered pairs forming a relation is called its	A. Function on B B. Range C. Domain D. A into B