

## Mathematics General Science Test Hard Mode

Sr	Questions	Answers Choice
1	Question Image	
2	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)
3	Question Image	
4	Question Image	D. None
5	The number of ways in which we can courier 5 packets to 10 cities is	A. 2 x 5 <sup>0</sup> B. 5 <sup>10</sup> C. 10 <sup>5</sup> D. 2 <sup>10</sup>
6	Question Image	D. None
7	Question Image	
8	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
9	If a statement $S(n)$ is true for $n=1$ and the truth of $S(n)$ for $n+K$ implies the truth of $S(n)$ for $S(n)=K+1$ , then $S(n)$ true for all	A. All Real numbers B. All integers C. Positive integers D. All complex numbers
10	The curves $y = x^2$ , $y = x$ intersect at	A. (0,0) , (1, 1) B. (2, 4) D. (0,3), (-1, 1)
11	Which of the vectors have opposite direction?	D. Both A and B
12	Question Image	A. 0 B. 1 C1 D. 2
13	The length of rectangle is twice as much as its breadth. If the perimeter is 120 cm, the length of the rectangle is	A. 10 cm B. 20 cm C. 30 cm D. 40 cm
14	The gradient of the line joining (1, 4) and (-2, 5) is	A. 3/8 B2 2/3 C1/3 D. 2
15	If the diagonal of a square has coordinates (1, 2) and (5,6) the length of a side is	A. 3 B. 4 C. 1 D. 5
16	What is the period of Cot x?	
17	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
18	Question Image	
19	A relation in which the equality is true only for some values of the unknown variable is called	A. An identity B. An equation C. A polynomial D. Inverse function
20	The set {{a,b}} is	A. Infinite set B. Singleton set C. Two points set