

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	The range of the tangent function is	A. all real numbers B. $-1 \leq x \leq 1$ C. natural number D. $z < \sup > + < /sup >$
2	The position vector of the point P(a, b, c) is	
3	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
4	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
5	$\sin 2\alpha =$	
6	Domain of $\sin x$ is _____	
7	What is the axis of the parabola $y^2 = 4ax$?	A. $x = 0$ B. $y = 0$ C. $x = a$ D. $y = 0$
8	Question Image <input style="width: 500px; height: 20px;" type="text"/>	D. none of these
9	If $f(x) = \tan x$ then $f(0)$ is	A. 0 B. 1 C. $1/2$
10	Three consecutive terms of a progression are 30, 24, 20. The next terms of the progression is	
11	Let the equation $ax^2 - bx + c = 0$ have distinct real roots both lying in the open interval (0, 1) where a, b, c are given to be positive integers. Then the value of the ordered triplet (a, b, c) can be	A. (5, 3, 1) B. (4, 3, 2) C. (5, 5, 1) D. (6, 4, 1)
12	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
13	The key for opening a door is in a bunch of 10 keys. A man attempts to open the door by trying the keys at random discarding the wrong key. The probability that the door is opened in the 5th trial is	A. $1/10$ B. $2/10$ C. $3/10$ D. $4/10$
14	If one root of the equation $x^2 - 3x + a = 0$ is 2 then $a =$ _____	A. 0 B. 1 C. 2 D. 3
15	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
16	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
17	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
18	If either $A = 0$ or $B = 0$, then $Ax^2 + By^2 + 2Gx + 2Fy + c = 0$ represents a	A. Circle B. Hyperbola C. Ellipse D. Parabola
19	$(a+bi) - (c+di) =$	A. $(a+b) = (c+d)$ B. $(a+c) + i(b+d)$ C. $(a - c) + (c - d)i$ D. $(a - c) + (b - d)i$
20	The square of the distance between two points P(x_1, y_1) and Q(x_2, y_2) is	