

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image	
2	The equation of the parabola with directrix $x = 2$ and the axis $y = 0$ is	A. $y^2 = 8x$ B. $y^2 = -8x$ C. $y^2 = 4x$ D. $y^2 = -4x$
3	Question Image	A. $4x + 1$ B. $4x$ C. $2x^3$ D. none of these
4	Question Image	
5	$3x + 4 \geq 0$ is	A. equation B. inequality C. identity D. none of these
6	If $S = \{3, 6, 9, 12, \dots\}$, then	A. S = Four multiples of 3 B. S = Set of even numbers C. S = Set of prime numbers D. S = All multiples of 3
7	$22.5^\circ =$ _____	
8	Question Image	A. Associative property of addition B. Commutative property of addition C. Distributive property D. Additive identity
9	If $a^2 = b^2$ then	A. $a = b$ B. $a + b = 1$ C. $ a + b = 0$ D. None
10	0 is _____	A. A positive integer B. A negative integer C. A natural number D. An integer
11	$f(x) = x$ is	A. trigonometric function B. exponential function C. quadratic function D. identify function
12	In the function $f: A \rightarrow B$, the elements of A are called	A. Images B. Pre-images C. ranges D. Parameters
13	The lines l_1 and l_2 intersect. The shortest distance between them is	A. Positive B. Negative C. Zero D. Infinity
14	The period of $\sin x/2 = \cos x/3$ is	A. 2π B. 12π C. 13π D. 7π
15	If a plane passes through the vertex of a cone then the intersection is	A. an ellipse B. a hyperbola C. a point circle D. a parabola
16	Question Image	
17	The distance between the points $A(-8, 3)$ and $B(2, -1)$ is	B. 116 D. none of these
18	Question Image	

19

Question Image

- B. B
- C. A'B'
- D. B'A

20

If the roots of $ax^2 + bx + c = 0$ are equal in magnitude but opposite in sign, then

- A. $a = 0$
- B. $b = 0$
- C. $c = 0$
- D. None of these