

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. A parabola B. An ellipse C. A hyperbola D. A circle
2	$2\cos^2 a/2 = \underline{\hspace{2cm}}$;	A. $1+\sin a$ B. $1-\sin a$ C. $1+\cos a$ D. $1-\cos a$
3	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
4	A triangle which is not right angle is called _____ triangle	A. acute B. Obtuse C. Right D. Oblique
5	If $\forall a, b \in \mathbb{R}$, then $a + b \in \mathbb{R}$ is a property	A. Closure law of addition B. Associative law of addition C. Additive inverse D. Additive identity
6	$i^{101} =$	A. i B. i^2 C. $-i$ D. -1
7	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. 30° B. 45° C. 60° D. 90°
8	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. an A.P. B. a G.P. C. a H.P. D. None of these
9	The parabola $y^2 = x$ is symmetric about	A. x-axis B. y-axis C. Both x and y-axis D. The line $y = x$
10	$\forall x, y \in \mathbb{R}$ and $x > 0, y > 0$, if $x > y$	D. None of these
11	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
12	For the equation $ x^2 + x - 6 = 0$, the roots are	A. One and only one real number B. Real with sum one C. Real with sum zero D. Real with product zero
13	The third term of a G.P. is 4, The product of first five terms is	A. 43 B. 45 C. 46 D. None of these
14	If $f(x) = x^3$ then $f(-2)$ is	A. -2 B. -4 C. -8 D. 8
15	If (a, b) is the mid-point of a chord passing thro' the vertex of the parabola $y^2 = 4x$, then	A. $a = 2b$ B. $2a = b$ C. $a^2 = 2b$ D. $2a = b^2$
16	If $b^2 - 4ac$ is positive then the roots of the equation are	A. Real B. Imaginary C. Positive D. Negative
17	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. $3x^2 + 2$ B. $3x^2 + 2x + 3$ C. $x^3 + x^2$ D. ...

D. none of these

18 The roots of the equation $ax^2 + bx + c = 0$ are real and distinct if

- A. $b^2 - 4ac < 0$
- B. $b^2 - 4ac = 0$
- C. $b^2 - 4ac > 0$
- D. None of these

19 $\sin^{-1} x =$ _____

20 The 60th part of one minute is called

- A. Degree
- B. Second
- C. Radian
- D. None of these