

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Associative law of multiplication	A. $ab = ba$ B. $a(bc) = (ab)c$ C. $a(b+c) = ab + ac$ D. $(a + b)c = ac + bc$
2	A circle which touches one side of a triangle externally and the other two sides produced is called _____	A. In-circle B. Circum circle C. Escribed circle D. None of these
3	The A.M. of two numbers is 34 and G.M. is 16, the numbers are	A. 2 and 64 B. 64 and 3 C. 64 and 4 D. None of these
4	The general equation of a circle is	
5	Matrices $A = [a_{ij}]_{2 \times 3}$ and $B = [b_{ij}]_{3 \times 2}$ are suitable for	A. BA B. $A^{²}$ C. AB D. $B^{²}$
6	The projections of a line segment on x, y, z axes are 12, 4, 3. The length and the direction cosines of the line segment are	
7	<input type="text" value="Question Image"/>	
8	<input type="text" value="Question Image"/>	
9	$x = r \cos\theta, y = r \sin\theta$ are the parametric equations of	A. Circle B. Ellipse C. Parabola D. Hyperbola
10	Period of $\tan x$ is _____	
11	<input type="text" value="Question Image"/>	A. image B. pre-image C. constant D. none of these
12	<input type="text" value="Question Image"/>	A. 8 B. 9 C. 10 D. 11
13	Graph of the equation $x^2 + y^2 = 4$ is	A. A circle B. An ellipse C. A parabola D. A square
14	The solution of the equation $\cos^2\theta + \sin\theta + 1 = 0$ lies in the interval	
15	The set of natural numbers is a subset of	A. $\{1, 2, 3, \dots, 100\}$ B. The set of whole numbers C. $\{2, 4, 6, 8, \dots\}$ D. None of these
16	If $x - 2$ is a factor of $ax^2 - 12x + a = 2a$, then $a =$ _____	A. -5 B. 5 C. 0 D. 1
17	The fifth term of $(a+2x)^{17}$ is	A. $4013x^3a^{13}$ B. $2208a^{13}x^{12}$ C. $223x^7a^{18}$ D. $38080a^{13}x^{12}$
18	For any two sets A and B, $A \subseteq B$ if	A. $x \in A \Rightarrow x \in B$ B. $x \notin A \Rightarrow x \notin B$ C. $x \in A \Rightarrow x \notin B$ D. None of these

19 If $f(x)$ is defined and continuous then $f(x)$ is always

- A. Rational function
- B. Trigonometric function
- C. Logarithmic function
- D. All are correct

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