

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Geometrically, the modulus of a complex number represents its distance from the	A. Point (1, 0) B. Point (0, 1) C. Point (1, 1) D. Point (0, 0)
2	<div style="border: 1px solid #ccc; padding: 2px; width: 100%;">Question Image</div>	A. 0 B. abc C. 1/abc D. None of these
3	A circle is a limiting case of an ellipse whose eccentricity	A. Tends to a B. Tends to b C. Tends to 0 D. Tends to a + b
4	If p, q, r and in A.P., a is G.M. between p and q and b is G.M. between q and r, then a^2, q^2, b^2 are in	A. A.P. B. G.P. C. H.P. D. None of these
5	<div style="border: 1px solid #ccc; padding: 2px; width: 100%;">Question Image</div>	<p>A. <div>>I and>I>I quadrants</div></p> <p>B. >I and>I quadrants</p> <p>C. >I and>I quadrants</p>

		$\text{rgb}(255, 255, 248); >vquadrants$ D. none of these
6	Which one is quadrantal angle	A. 8181710° B. 2345° C. -8181180° D. -2344°
7	How many arrangements of the letters of the word MATHEMATICS can be made	
8	Trivial solution of homogeneous linear equation is	A. (0, 0, 0) B. (1, 2, 3) C. (1, 3, 5) D. a.b and c
9	$G = \{e, a, b, c\}$ is an Abelian group with e as identity element. The order of the other elements are	A. 2, 2, 2 B. 3, 3, 3 C. 2, 2, 4 D. 2, 3, 4
10	The range of $y = \cot x =$ _____	A. $-\text{span style="color: \text{rgb}(34, 34, 34); font-family: \"Times New Roman\"; font-size: 24px; text-align: center; background-color: \text{rgb}(255, 255, 248);"><i>\infty</i>> y \> +\text{span style="color: \text{rgb}(34, 34, 34); font-family: \"Times New Roman\"; font-size: 24px; text-align: center; background-color: \text{rgb}(255, 255, 248);"><i>\infty</i>$ B. $-\text{span style="font-family: \"Times New Roman\"; font-size: 24px; color: \text{rgb}(34, 34, 34); text-align: center; background-color: \text{rgb}(255, 255, 248);"><i>\infty</i>$ C. $-\text{span style="font-family: \"Times New Roman\"; font-size: 24px; color: \text{rgb}(34, 34, 34); text-align: center; background-color: \text{rgb}(255, 255, 248);"><i>\infty \< </i>y \< +\text{span style="font-family: \"Times New Roman\"; font-size: 24px; color: \text{rgb}(34, 34, 34); text-align: center; background-color: \text{rgb}(255, 255, 248);"><i>\infty</i>$ D. None of above
11	Question Image	
12	Domain of $\sin x$ is _____	
13	The measure of the acute angle between the lines represented by $x^2 - xy - 6y^2 = 0$ is	A. 120° B. 30° C. 130° D. 45°
14	$i^2 =$	A. 1 B. 2 C. -1 D. 0
15	If $\tan^{-1}3 + \tan^{-1}x = \tan^{-1}8$, then $x =$	A. 5 B. $1/5$ C. $5/14$ D. $14/5$
16	$2\pi + \theta$ will have terminal side in Quad	A. I B. II C. III D. IV
17	If $f(x) = 2x+1$ then $f \circ f(x) =$ _____;	A. $4x+3$ B. $2x+3$ C. $4x+1$ D. None of these

18

Question Image

- A. $c = 0$
- B. $c = -1$
- C. $c = -2$
- D. $c = 1$

19

Question Image

20

Question Image