

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	In any triangle ABC, with usual notation $a \sin \beta =$ _____;	A. $b \sin \alpha$ B. $b \sin \beta$ C. $a \sin \alpha$ D. None of these
2	Question Image	
3	Distance between A(3, 8), B(5, 6) is	
4	$\sqrt{-1} b =$	A. b B. 2 C. 2b D. None of these
5	The graph of the quadratic equation is	A. Straight line B. Circle C. Parabola D. ellipse
6	$\tan(3\pi/2 + \theta) =$ _____;	A. $\tan \theta$ B. $\cot \theta$ C. $-\tan \theta$ D. $-\cot \theta$
7	Question Image	A. 0 B. Independent of a C. Independent of b D. Independent of c
8	Question Image	A. Improper rational fraction B. Proper rational fraction C. Polynomial D. Equation
9	The behavior of trigonometric function is called	A. Continuity B. Discontinuity C. Periodicity D. Smoothness
10	$\cos 315^\circ =$ _____	
11	The distance s of a particle in time t is given by $s = t^3 - 6t^2 - 4t - 8$. Its acceleration vanishes at t =	A. 1 B. 2 C. 3 D. 4
12	Question Image	A. 1 B. 12 C. 5 D. 29
13	Question Image	
14	The measure of the angle subtended at the centre of the circle by an arc, whose length is equal to the radius of the circle is	A. $1 < \sup>0 < /sup>$ B. 1' C. 1" D. 1 rad
15	The central angle of an arc of a circle whose length is equal to the radius of the circle is called one	A. Degree B. Second C. Minute D. Radian
16	Gooch crucible is made of :	A. Brass. B. Porcelain. C. Bronze. D. Gold.
17	The inclination of a line parallel to x-axis is	A. (-1, 2) B. (-2, 2) C. (1, 34) D. (1, 34)

18	The range of inequality $x + 2 > 4$ is	<div>Roman" font-size: 24px; text-align: center; background-color: rgb(255, 255, 248);"><i>∞</i></div> <div>D. None</div>
19	The domain of $y = \sqrt{(x^2 - 9)}$ is	<div>A. \mathbb{R}</div> <div>B. $(0, +\infty)$</div> <div>C. $(-\infty, -3) \cup (3, +\infty)$</div> <div>D. $(0, \infty)$</div>
20	The eccentricity of the conic $9x^2 - 16y^2 = 144$ is	<div>A. $\frac{4}{5}$</div> <div>B. $\frac{5}{4}$</div> <div>C. $\frac{4}{3}$</div> <div>D. $\frac{3}{4}$</div>