

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	The square root of $2i - 20i$ is	A. $\pm(5 - 2i)$ B. $\pm(5 + 2i)$ C. $(5 - 2i)$ D. None of these
2	The line $y = 4x + c$ touches the hyperbola $x^2 - y^2 = 1$ if	
3	Question Image	A. Polynomial B. Equation C. Improper rational fraction D. Proper rational fraction
4	$\sin(3\pi/2 - \theta) =$ _____;	A. $\sin\theta$ B. $\cos\theta$ C. $-\sin\theta$ D. $-\cos\theta$
5	In one hour, the minute hand of a clock turns through	
6	Question Image	
7	Out of 40 consecutive natural numbers, two are chosen at random. Probability that the sum of the numbers is odd, is	A. $14 / 29$ B. $20 / 39$ C. $1 / 2$ D. n
8	The n th term of an A.P is $(3n+5)$ Its 75th term is	A. 26 B. 7 C. 21 D. Cannot be determined
9	$60^\circ =$ _____	
10	If a parabola opens down, then its vertex is at the	A. Right of the parabola B. Left of parabola C. Lowest point on the parabola D. Highest point on the parabola
11	For graphing a linear inequality, solid line is drawn if the inequality involves the symbols:	A. $>$; or $<$; B. \leq ; or \geq or $<$; or $>$ C. $=$ or \neq D. $=$ or $>$;
12	If $ a = b = a+b = 1$, then $ a-b $ is equal to:	A. 1 B. $\sqrt{3}$ C. $\sqrt{2}$ D. 7
13	A person standing on the bank of a river finds that the angle of elevation of the top of a tower on the opposite bank is 45° . then which of the following statements is correct?	A. Breadth of the river is twice the height of the tower B. Breadth of the river an the height of the tower are the same C. Breadth of the river is half of the height of the tower D. None of these
14	Question Image	
15	Question Image	A. Additive property in R B. Multiplication property in R C. Cancellation property in R D. Distribution property in R
16	The product of the four fourth roots of unity is	A. 0 B. 1 C. -1 D. None of these
17	If a set S contains n elements then P (S) has number of elements	A. 2^{n-1} B. 2^{n-2} C. $2.n$ D. 2^{n-2}
		A. 0 -

18	Question Image	B. 1 C. -1 D. undefined
19	The set which has no proper subset is	A. {0} B. {} C. {∅} D. None of these
20	$\int \sqrt{\sin^2 x} dx$ is equal to:	A. $x \cot x + \ln \sin x $ B. $-x \cot x - \ln \sin x $ C. $x \cot x - \ln \sin x $ D. $x \tan x - \ln \sec x $