

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image	
2	The distance between the points (2, 2) and (3, 3) is	A. 10 C. 5 D. 2
3	The largest possible domain of the function: $y = \sqrt{x}$ is:	A. $(0, \infty)$ B. 12 C. $(3, 12)$ D. $(3, \infty)$
4	Question Image	A. $2x + 3$ B. $x < \sup 2 < \sup + 3 + c$
5	If $z = (x, y)$, then $\bar{z} =$	A. $(-x, y)$ B. $(x, -y)$ C. $(-x, -y)$ D. None of these
6	Which is a proper rational fraction	
7	Question Image	
8	If the elevation of the sun is 30° , then the length of the shadow cast by a tower of 150 ft height is	
9	Domain of $\cosh x$ is	A. \mathbb{R} B. $\mathbb{R} - \{0\}$ C. $[1, \infty)$ D. $[0, \infty)$
10	How many committees of 5 numbers can be chosen from a group of 8 players person when each committee must include 2 particular persons	A. 8! B. $5!3!$ C. 5! D. 20
11	Question Image	A. 2 B. 4 C. 3 D. 16
12	Some of two real numbers is also a real number, this property is called:	A. Commutative property w.r.t addition B. Closure property w.r.t. addition C. Associative property w.r.t. addition D. Distributive property w.r.t addition
13	The curve $f(x, y) = 0$ has a central symmetry if	A. $f(-x, -y) = f(x, y)$ B. $f(x, -y) = f(x, y)$ C. $f(-x, y) = f(x, y)$ D. $f(-x, -y) \neq f(x, y)$
14	Question Image	
15	Question Image	A. A.P. B. G.P. C. H.P. D. None of these
16	An airplane flying at height of 300 meters above the ground passes vertically above another plane at an instant when the angle of elevation of the two planes from the same point on the ground are 60° and 45° respectively. Then the height of the lower plane from the ground is (in meters).	
17	$\int \sqrt{\sin^2 x} dx$ 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 $
18	Question Image	A. z is purely imaginary B. a is any complex number C. z is real D. None of these

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| 19 | In a class of 100 students, 60 drink tea, 50 drink coffee and 30 drink both. A student from his class is selected at takes at last one of 2 drinks is | A. 2 / 5
B. 3 / 5
C. 4 / 5
D. None of these |
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| 20 | The number of divisors of 1029, 1547 and 122 are in | A. A.P.
B. G.P.
C. H.P.
D. None of these |
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