

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	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
2	If $b^2 - 4ac$ is positive then the roots of the equation are	A. Real B. Imaginary C. Positive D. Negative
3	Two balanced dice are tossed once, the sample space when the integers on the faces of two dice are the same is	A. $\{(1, 1), (2, 2), (3, 3)\}$ B. $\{(4, 4), (5, 5), (6, 6)\}$ C. $\{(1, 1), (2, 2), (3, 3), (4, 4), (5, 5), (6, 6)\}$ D. None of these
4	Question Image	
5	The unit vector along y-axis is	D. none of these
6	If $3x^4 + 4x^3 + x^5$ is divided by $x+1$, which of the following is the remainder	A. 7 B. -2 C. 6 D. 1
7	If the intersecting plane is parallel to a generator of the cone, but intersects its one nappe only, the curve obtained is	A. an ellipse B. a hyperbola C. a circle D. a parabola
8	If $Z_1 = 1 + i$, $Z_2 = 2 + 3i$, then $ Z_2 - Z_1 = ?$	
9	The set $\{1, -1, 1, -1\}$, form a group under	A. Addition B. Multiplication C. Subtraction D. None
10	Question Image	A. 5 B. 10 C. 20 D. 30
11	$f(x) = 2x^2 + 3x + 5$ is a	A. trigonometric function B. algebraic function C. exponential function D. logarithmic function
12	Question Image	A. A B. B C. A' D. None of these
13	The function sine and Cosine have the closed interval as their range	A. $[1, 0]$ B. $[-1, 1]$ C. $[0, 1]$ D. $[-1, 2]$
14	The positive integer just greater than $(1 + 0.0001)^{10000}$ is	A. 4 B. 5 C. 2 D. 3
15	One degree is denoted by	A. 1° B. 1' C. 1" D. 1 rad
16	If $a > b$ or $a < b$ then $a = b$ is a	A. Additive property B. Transitive property C. Trichotomy property of inequality
17	A box contains 10 red 30 white and 20 black marbles When a marble is drawn at random the probability that it is either red or white is	A. $1/6$ B. $1/3$ C. $1/2$ D. $2/3$

18 $\sin (2\pi - \theta)$

- A. $\cos \theta$
 B. $\sin \theta$
 C. $\tan \theta$
 D. $-\sin \theta$

19 Domain of cosec x is _____

20 Question Image