

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	The function $f(x) = x $ is a/an _____ function	A. Even B. Odd C. Both even as well as odd D. Neither even nor odd
2	Question Image <input style="width: 100%; height: 20px;" type="text"/>	
3	If the cutting plane is parallel to the axis of the cone and intersects both of its nappes, then the curve of intersection is:	A. an ellipse B. a circle C. a parabola D. a hyperbola
4	The positive real number which is the measure of the length of a vector is called the	A. Unit vector B. Modulus C. Inverse D. None of these
5	Derivative of a w.r.t x is	A. 0 B. 1 C. x D. x
6	If $2 \tan^{-1}(\cos x) = \tan^{-1}(\operatorname{cosec}^2 x)$, then x is equal to	A. 3 B. 2 C. 6 D. π
7	u, v and $u \times (v \cdot w)$ are	A. Equal B. Parallel C. Additive immense of each other D. Meaningless
8	For graphing a linear inequality, solid line is drawn if the inequality involves the symbols:	A. $>$ or $<$; B. \geq or \leq C. $=$ or \neq D. $=$ or $>$
9	If $x+y+z+\dots+2n = 2n+1-1 \forall n \in W$, then cube root of xyz is equal to	A. 1 B. 4 C. 2 D. 8
10	Question Image <input style="width: 100%; height: 20px;" type="text"/>	A. (-6, 4) B. (-3, 2) C. (6, -4) D. (3, -2)
11	Question Image <input style="width: 100%; height: 20px;" type="text"/>	
12	A person standing on the bank of a river observes that the angle subtended by a tree of the opposite bank is 60° , when he retreats 40 m from the bank, he finds the angle to be 30° . The height of the tree and the breadth of the river are	A. -228 B. $\frac{1}{288}$
13	The sum of the first n terms of an A.P. is $\frac{1}{2}n^2 + 3n$. The sum of the first 13 terms is	A. -228 B. $\frac{1}{288}$

13	The coefficient of the third term of $(8a-b)^{17}$, after simplification is	C. $1/220$ D. $-1/177$
14	The set $\{ \{a, b\} \}$ is	A. Infinite set B. Singleton set C. Two points set D. Empty set
15	Every subset of a finite set is	A. Disjoint B. Null C. Finite D. Infinite
16	If n is any positive integer then $2^n > 2(n+1)$ is true for all	
17	If A is skew Hermitian Matrix then which of the following is not skew Hermitian matrix	A. A^2 B. A^5 C. A^3 D. A^7
18		A. $(1, 3)$ B. $(-1, -3)$ C. $(1, -3)$ D. $(-1, 3)$
19	In \mathbb{R} the number of identity elements w.r.t. $ $ is	A. One B. Two C. Three D. Four
20	In \mathbb{R} , the additive identity is	A. 0 B. 1 C. -1 D. None