

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	In ladder leaning against a vertical well makes an angle of 24 $^\square$ with the wall, Its foot is 5m from the wall, its length is	A. 5.47m B. 2m C. 7m D. 6.29m
2	$\cos^{-1}(\cos x) =$	A. x B. cos x C. x = 1/x D. cos ⁻² x
3	Archimedes approximate the function by horizontal function and the area under f by the sum of small	A. Parallelograms B. Squares C. Retangles D. Polygons
4	Question Image	D. none of these
5	Question Image	C. 2x D. 2
6	Question Image	
7	The negative square root of 9 can be written as:	A√9 B. √9 C. √18 D√18
8	The no of term is the expansion of (a+x)n-1 is	A. n+1 B. n-1 C. n D. n-2
9	Cos-1 (-x) =	Ax B. 1/x C. tan-1 x D. π-cos-1 x
10	Derivative of x^3 w.r.t x is	A. 0 B. 1 C. 3x ² D. x ³
11	The expansion (1 + x) ⁻³ holds when	A. x > 1 B. x < 1 C. x < 1 D. x > 1
12	The unit vector along x-axis is	D. none of these
13	If x+y+z++2n = 2n+1-1 ∀ n ∈ W,then cube root of xyz is equal to	A. 1 B. 4 C. 2 D. 8
14	Question Image	D. none of these
15	Identity w.r.t intersection in a power set of any set is	A. Ø B. Set itself C. Singleton set D. {0}
16	If (0, 0) and (1, 0) are the end points of a diameter, then the equation of the circle is	
17	The point on y^2 = 4ax nearest to the focus has its abciassae equal to	Aa B. a C. a/2 D. 0
18	The set of real numbers is a subset of	A. The set of natural numbers B. The set of rational numbers C. The set of integers D. The set of complex numbers
		A. a = -10,b=34

19	If $y = eax sin bx and y2 - 2ay1 + (a2+b2) y=0$ the for what values of a and b we have $y2+10y1+34y=0$	B. a=-5,b=3 C. a=5,b=3 D. a=10,b=34
20	Five engineering, four mathematics, two chemistry books are placed on a table at random. The probability that the books of each kind are all together is	