Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Name the property used in 4 + 9 = 9 + 4	A. Associative property of addition B. Commutative property of addition C. Distributive property D. Additive identity
2	If A = {x/x is a positive integer and 4≤x<23}, then A=	A. {1,2,3,4,5,6,7} B. {4,5,6.....22} C. {1,2,3,.....23} D. {1,2,3,4,5}
3	∀x∈(a,b),f(x) is increasing if	A. f′(x) >0 B. f′(x) <0 C. f″(x) >0 D. f″(x) =0
4	The coefficient of xn in the expansion of (1-x)-1 is	A. (-1)n2n B. 1 C. (-1)n(n+1) D. (n+1)
5	Question Image	A. 0 B. 1 D. -1
6	If ax + bx + c =0 is satisfied by every value of x,then	A. b = 0,c = 0 B. c = 0 C. b = 0 D. a = b = c = 0
7	What is the number of elements of the power set of { }	A. 0 B. 1 C. 2 D. 3
8	Question Image	
9	Question Image	
10	If a force F = 2i + j +3k acts at point (1,-2,2) of a body then the moment of F about a pint lying on the line of action of the force is	A. 5 B. Equal to the moment of the force about origin C. 0 D. Cannot be found
11	Question Image	
12	If the roots of ax^2+ bx + c =0 are equal in magnitude but opposite in sign, then	A. a = 0 B. b = 0 C. c = 0 D. None of these
13	The area under the curve y = $1/x^2$ between x = 1 and x =4 is:	A. -25 B. 0.75 C. -0.35 D. -10
14	Ifθ= 60° then	A. sinθ= 1/2 B. tanθ= cot 30° C. θ=<span style="color: rgb(34,

		34, 34); font-family: "Times New Roman"; font-size: 24px; text-align: center; background-color: rgb(255, 255, 224);">π/4 D. secθ= 4
15	Question Image	A. 1 B. 0 C. 3 D. -1
16	If sin x + $\sin^2 x = 1$, then the value of $\text{Cos}^{12}x + 3\cos^{10}x + 3\cos^8 x + \cos^6 x + 2\cos^4 x + \cos^2 x$-2 is equal to	A. 0 B. 1 C. 2 D. sin²x
17	What is the value of cos (cos-1 2) ?	A. √2 B. 1/2 C. undefine D. 0
18	The range of inequality x + 2 > 4 is	A. (-1, 2) B. (-2, 2) C. (1,∞) D. None
19	The tangents drawn from the point P to a circle are real and coincident if	A. P is on the circle B. P is inside the circle C. P is outside the circle D. none of these
20	The vertex of the standard position angles lies on	A. (0,0) B. (0,1) C. (1,0) D. (1,1)