Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image	
2	If a≠ , b≠ 0 and|a=b|=|a-b|,then vectors a and b are:	A. Parallel to each other B. Perpendicular to each other C. Inclined at 60° D. neither parallel nor perpendicular
3	Question Image	A. 5 B. 25 D. 3
4	Question Image	A. 0 B. 90° C. 180° D. 360°
5	8 . 7 . 6. 5 in factorial form is	
6	Question Image	
7	The set of the first elements of the orders pairs forming a relation is called its	A. Relation in B B. Range C. Domain D. Relation In A
8	Question Image	
9	The set of real roots of the equation $\log_{(5x+4)}(2x+3)^3 - \log_{(2x+3)}(10x^2 + 23x + 12) = 1$ is	A. {-1} B. {-3/5} C. Empty set D. {-1/3}
10	The multiplicative inverse of x such that x = 0 is	A. -x B. does not exist C. 1/x D. 0
11	cos(a +β)-cos(a-β) = _____;	A. 2cosa cosβ B. 2sina cosβ C. -25 in a cosβ D. -2sin a sinβ
12	If distance of (a,b) from x-axis is 2 then	A. a = 2 B. b = 2 C. a = b D. b = 4
13	If $f(x) = x^2$ then f(0) is	A. 0 B. 1 C. 2 D. none of these
14	Question Image	A. (a + b)c = a . c + bc B. a + b = b + a C. (a + b) + c = a + (b + c) D. a(b+ c) = ab + ac
15	If n is any positive integer then 3 + 6 + 9 + ...+ 3n = _____	
16	Roots of the equation $x^2 - 7x + 10 = 0$ are	A. {2, 5} B. {-2, 5} C. {2,5} D. {-2,-5}
17	The two different parts of the hyperbola are called its	A. Vertices B. Directrices C. Nappes D. Branches
18	Question Image	
19	If x+y+z+......+2n = 2n+1-1 ∀ n∈W,then cube root of xyz is equal to	A. 1 B. 4 C. 2

20	Question Image	A. a = 2, b = 3
		B. a = 3, b = 2
		C. a = 2, b = 1, 2
		D. a = 3, b = 3