Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	2cos2 a/2 =_____;	A. 1+sina B. 1-sina C. 1+cosa D. 1-cosa
2	The distance of the plane 2x - 3y + 6z + 14 = 0 from the origin is	A. 14 B. 2 C. -2 D. 11
3	If|a| =|b| = |a+b|=1, then|a-b| is equal to:	A. 1 B. √3 C. √2 D. 7
4	w^{15}= _____	A. 0 B. 1 C. w D. w²
5	Question Image	A. 0 B. 1 C. -A D. -1
6	The term involving x^4 in the expansion (3-2x) is	A. 217x⁴ B. 15120x⁴ C. 313x⁴ D. -25x⁴
7	The distance between the points A(-8,3) and B(2,-1) is	B. 116 D. none of these
8	Question Image	
9	IfΔABC is right, law of cosine reduce to	A. Law of sine B. Law of tangent C. Phthogorous theorem D. Hero's formula
10	The latus rectum of the ellipse $5x^2$+ $9y^2$= 45 is	A. 10 / 3 B. 5 / 3 C. 3 / 5 D. 3 / 10
11	Question Image	
12	If the lines 2x-3y-1=0,3x-y-5=0 and 3x+py+8=0 meet at a unique point then	A. p = -14 B. p = -1 C. p =0 D. p=12
13	The value of sin [arc cos (-1/2)] is	
14	E-radius corresponding to < C is	
15	The modulus of a vector i-i+ k is:	A. √3 B. 1 C. √2 D. ∞
16	The sum of the odd coefficients in the expansion of $(a + x)^4$is	A. 14 B. 12 C. 8 D. 4
17	Question Image	C. 2x D. 2
18	x = _____ is in the solution of 2x + 3 ≥ 0	A. 1 B. -2 C. -3 D. -4

19	Power set of difference set N-W is	A. Empty set B. Infinite set C. Singleton set D. {0,∅}
20	If #n = $(n-5)^2$+ 5, then find #3 x #4.	A. 54 B. 12 C. 4 D. 9