Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	If $f(x) = x^2 - x$ then $f(-2)$ is	A. 4 B. 6 C. 2 D. 0
2	If $Z_1 = 1 + i$, $Z_2 = 2+3i$, then $\|Z_1 - Z_2\| = ?$	
3	Let A is a 3 x 3 matrix and B is its adjoint matrix. If $\|B\| = 64$, then $\|A\| =$	
4	Question Image	
5	Question Image	A. A B. B C. U D. None of these
6	Every whole number is	A. A real number B. An irrational number C. A prime number D. A negative integer
7	Question Image	
8	The value of x and y when $(x + iy)2 = 5 - 4i$	A. x = 2, y = -1 B. x = -2, y = 1 C. x = 2, y = -i D. x = 2, y = 2
9	The square root of 2i - 20i is	A. +-(5 - 2i) B. +-(5 + 2i) C. (5 - 2i) D. None of these
10	Two balanced dice are tossed once, the sample space when the integers on the faces of two dice are the same is	A. {(1, 1), (2, 2), (3, 3)} B. {(4, 4), (5, 5), (6, 6)} C. {(1, 1), (2, 2), (3, 3), (4, 4), (5, 5), (6, 6)} D. None of these
11	Question Image	A. -2x³ B. 2x⁻³ C. -2x⁻³ D. 2x³
12	The total number of subsets that can be formed out of the set {a, b, c} is	A. 1 B. 4 C. 8 D. 12
13	Question Image	A. Closure law of addition B. Associative law of addition C. Commutative law of multiplication D. Associative law of multiplication
14	Question Image	A. Commutative property of addition B. Closure property of addition C. Additive inverse D. Associative property w.r.t. to addition
15	Question Image	A. A = C B. A = B C. B = C D. None of these
16	If A is a non singular matrix then $A^{-1} =$ _____	
17	For two vector a and b, a+b = _____	A. a b B. b+a C. b-a D. None
18	A function from X to Y is denoted as	B. f : X to Y

18	A function from X to X is denoted as	D. f : Y to Y
19	(7, 9) + (3, -5) =	A. (4, 4) B. (10, 4) C. (9, -5) D. (7, 3)
20	The law of cosines reduces to a2 +c2 =b2 for	A. α = 90° B. β = 90° C. γ = 90° D. α +β +γ =180°