Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	The mid point of the line segment joining the points A(-8,3) and B(2,-1) is	A. (-3,1) B. (-6,2) C. (5,2) D. (-5,2)
2	The zero vector is regarded to be parallel to	A. Every vector B. Is some cases C. Both a,b D. None
3	If $\pi \leq x \leq 2\pi$, then $\cos^{-1}(\cos x)=$	A. cos x B. -x C. 1/x D. -x
4	The angle of elevation of the tops of two towers at the middle point of the line joining the foots of the tower are 60° and 30° respectively. The the ratio of the heghts of the tower is	A. 2 : 1 B. 3 : 1 C. 1 : 2 D. 1 : 3
5	$(51)^4$ is equal to	A. 7065201 B. 8065201 C. 6765201 D. 6565201
6	A die is thrown 100 times. If getting an odd number is considered a success, the variance of the number of successes is	A. 50 B. 25 C. 10 D. 100
7	Period of Cotangent function is	A. π B. -π C. 0 D. -2π
8	If the cutting plane is slightly tilted and cuts only one nappe of the cone, the resulting section is:	A. an ellipse B. Circle C. a hyperbola D. a parabola
9	How many arrangements of the letter of the word PAKPATTAN can be made	
10	$H_1, H_2, H_3, ... H_n$ are called n harmonic means between a and b if a, $H_1, H_2, H_3, ... H_n$ b are in	A. H.P. B. G.P. C. A.P. D. None of these
11	Question Image	
12	Question Image	A. Does not exist because f is unbounded B. Is not attained even though f is bounded C. Is equal to 1 D. Is equal to -1
13	The physical quantity which can be specified by a number alongwith unit is called a	A. scalar B. vector C. constant D. none of these
14	graph of sine function is bounded between lines	A. y± 1 = 0 B. x± 1 = 0 C. x± y - 0 D. None of these
15	The 10th common term between the series 3+7+11+....... and 1 + 6 +11 + ... is	A. 191 B. 193 C. 211 D. None of these
16	Question Image	A. 1 x 1

17	The order of the matrix [1 2 3] is	B. 3 x 3 C. 3 x 1 D. 1 x 3
18	∀ a ε R ∃ o ε R such that a + v = 0 + a = a is property of	A. Commutative law of addition B. Associative law of addition C. Additive identity D. Additive inverse
19	For any set B,B∪B' is	A. Is set B B. Set B' C. Universal set
20	A number A is called the arithmetic mean between a and b if a, A, b is _____	A. Arithmetic sequence B. Geometric sequence C. Harmonic sequence D. Arithmetic sequence