Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image	A. 5 B. 25 D. 3
2	If x-2 and x-1 both are factors of $x^3-3x^3+2x-4p$, then P must equal to	A. 1 B. 2 C. 0 D. -2
3	Arithmetic mean between x - 3 and x + 5 is	A. x + 1 B. x + 2 C. x + 3 D. x + 4
4	cos (180° -θ)=	A. sin θ B. - cos θ C. - sin θ D. None of above
5	f(x) = ax + b will be an identity function if	A. a = 1 , b = 1 B. a = 1 , b = 0
6	The law of cosines reduces to $a^2 +c^2 =b^2$ for	A. α = 90° B. β = 90° C. γ = 90° D. α +β +γ =180°
7	The angle between the vectors $\underline{u}$ = [-3 , 5] and $\underline{v}$ = [6 , -2] is:	A. π/2 B. -3π/2 C. π D. None of these
8	The transport of a square matrix is a	A. Row matrix B. Column matrix C. Square matrix D. Null matrix
9	Question Image	
10	√2 +√3 +√5) = (√2 +√3 +√5: this property is called	A. associative property w.r.t addition B. commutative property C. Closure property w.r.t addition D. Additive identity
11	Question Image	
12	If $3x^4 +4x^3+x^5$is divided by x+1 , which of the following is the remainder	A. 7 B. -2 C. 6 D. 1
13	If 2 and 2 are x and y components of vector then its angle with x-axis is	A. 30° B. 45° C. 60° D. 90°
14	If p, q, r and in A.P., a is G.M. between p and q and b is G.M. between q and r, then a^2, q^2, $b^2$are in	A. A.P. B. G.P. C. H.P. D. None of these
15	If a = 2i +2j, b= 3i -j and c=4i +5j, the 3b -a-2c =	A. -i -15j B. i-15j C. i-3i

		D. None of these
16	To each element of a group there corresponds _____ inverse element	A. Two B. One C. No D. Three
17	x =r cosθ,y= sinθ are the parametric equations of	A. Circle B. Ellipse C. Parabola D. Hyoerbola
18	Multiplicative inverse of 0 is	A. 0 B. 1 C. +-1 D. Does not exist
19	a chord passing through the focus of a parabola is called a:	A. Focal chord B. Latus rectum C. Tangent D. Directrix
20	Question Image	A. 1/2 B. 2 C. 1/4 D. 4