Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image	C. 2x D. 2
2	If A = [a_{ij}] is (m x n) matrix, then transpose of A is of the order	A. m x m B. m x n C. n x n D. n x m
3	The symbol of irrational is	A. W B. N C. Q D. Q'
4	Digit in the unit place of the number 183! + 3^{183}	A. 7 B. 6 C. 3 D. 0
5	If x,y are two positive distinct numbers then	A. A>G>H B. A<G<H C. A=G=H D. None of these
6	Question Image	
7	If the pth, qth, and rth terms of an A.P. are in G.P:., then the common ratio of the G.P. is	
8	The line y = 4x + c touches the hyperbola x^2- y^2= 1 if	
9	Question Image	
10	A man of height 6 ft observes the top of a tower and the foot of the tower at angles of 45° and 30° of elevation and depression respectively. The height of the tower is	
11	Question Image	A. Associative property of addition B. Associative property of multiplication C. Commutative property of addition D. Commutative property of multiplication
12	Question Image	A. cos x + c B. -sin x + c C. -cos x + c D. sin x + c
13	The range of the principle cos function is	
14	For two vector a and b, a+b = _____	A. a b B. b+a C. b-a D. None
15	Question Image	A. parallel vectors B. perpendicular vectors C. concurrent vectors D. collinear vectors
16	(a +b*i*) -c (c +d*i*) =	A. (a +b) = (c +d) B. (a +c) + i(b +d) C. (a -c) + (c -d)i D. (a -c) +(b -d) i
17	If |αi + (α+1)j +2k| =3 then value of α is	A. 1,2 B. -1,-2 C. 1,-2 D. -1,2
18	By expressing sin 125° in terms of trigonometrical ratios, answer will be	A. sin 65° = 0.9128 B. sin 55° = 0.8192 C. <span style="font-size:

		0.95em;">sin 70° = 0.5384 D. <span style="font-size: 0.95em;">sin 72° = 0.1982
19	Given X,Y are any two sets such that number of elements in set X = 28, number of elements in set Y = 28, and number of elements in set X∪Y = 54, then number of elements in set X∩Y =	A. 4 B. 3 C. 2 D. 1
20	if Z1 = 1+i, Z2= 2+3i, then |Z2 -Z1| =	A. √3 i B. √7 C. -2-i D. √5