Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	In the function f: A$\square$B, the elements of a are called	A. Images B. Pre-images C. ranges D. Parameters
2	Range of sin x is _____	A. [-1, 1] B. R C. Negative real numbers D. None of these
3	A - B = _____	
4	Question Image	
5	The number of divisors of 1029, 1547 and 122 are in	A. A.P. B. G.P. C. H.P. D. None of these
6	Question Image	A. sin x + c B. -sin x + c C. cos x + c D. -cos x + c
7	A matrix in which the number of rows is not equal to the number of columns is called a	A. Diagonal matrix B. Rectangular matrix C. Square matrix D. Scalar matrix
8	In ladder leaning against a vertical well makes an angle of 24$\square$ with the wall, Its foot is 5m from the wall, its length is	A. 5.47m B. 2m C. 7m D. 6.29m
9	Question Image	
10	If for the matrix A, A^5= I, then A^{-1}=	A. A^2 B. A^3 C. A D. None of above
11	The set (Q, .)	A. Forms a group B. Does not form a group C. Contains no additive identity D. Contains no additive inverse
12	Question Image	A. (x, y) B. (kx, y) C. (x, ky) D. (kx, ky)
13	Question Image	A. 28 / 81 B. 28 / 243 C. 81 / 28 D. 243 / 82
14	The points A(3,1),B(-2,-3),C(2,2) are vertices of an (an)	A. Right triangle B. Equilateral triangle C. Isosceles triangle D. Scalene triangle
15	A rectangular hyperbola whose centre is C is cut by any circle of radius r in four points P, Q, R and S. Then CP^2+ CQ^2+ CR^2+ CS^2=	A. r^2 B. 2 r^2 C. 3 r^2 D. 4 r^2
16	A quadrilateral whose diagonals are perpendicular bisector of each other is	A. Square B. Rectangle C. Rhombus D. Parallelogram E. Trapezium
17	Two balanced dice are tossed once, the sample space when the integers on the faces of two	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)}

17	dice are the same is	C. {(1, 1), (2, 2), (3, 3), (4, 4), (5, 5), (6, 6)} D. None of these
18	If a,β are the roots of the equation x2 + kx +12 = 0 such that a - β = 1, the value of k is	A. 0 B. ±1 C. ±5 D. ±7
19	a _____quantity is one that possesses both magnitude and direction.	A. Scalar B. Vector C. Segment D. None of these
20	Question Image	