Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image	A. real part of z B. imaginary part of z C. conjugate of z D. modulus of z
2	Given X.Y are any two sets such that number of elements in X = 18, number of elements in set Y = 24,and number of elements in set X∪ Y =40,then number of elements in set x∩ Y =	A. 3 B. 1 C. 2 D. 4
3	It is not possible to find the exact value of	A. π B. $\sqrt{9}$ C. $\sqrt[3]{27}$ D. $\sqrt{1}$
4	If cos 20°=K and cos x=2 k^2-1, then the possible values of x between 0° and 360° are	A. 140° B. 50° and 140° C. 50° and 130° D. 40° and 320°
5	If a^x= b^y= $c^z$and a, b, c are in G.P. then x, y, z are in	A. A.P. B. G.P. C. H.P. D. None of these
6	Considering Cosine Rule of any triangle ABC, possible measures of angle A includes	A. Angle A is obtuse B. Angle A is acute C. Angle A is right-angle D. All of above
7	A relation in which the equality is true only for some values of the unknown is called	A. An identity B. An equation C. A polynomial D. None
8	Multiplying each side of an inequality by (-1) will:	A. Not effect B. Change the sign C. Become zero D. Not defined
9	The system of measurement in which the angle is measured in radians is called the	A. circular system B. CGS system C. sexagesimal system D. none of these
10	If P = {x/x = p/q where p,q∈ Z and q≠ 0}, then P is the set of	A. Irrational numbers B. Even numbers C. Rational numbers D. Whole numbers
11	Number of terms in the expansion of $(a+x)^n$is	A. n - 1 B. n + 1 C. n + 2 D. n + 3
12	The vector k = [0,0,1] is called unit vector along:	A. x -axis B. y - axis C. z- axis D. None of these
13	If the distance of any point on the curve from any of the two lines approaches zero then it is called	A. Axis B. Directrices C. Asymptotes D. None
14	How many comittees of 5 numbers can be chosen from a group of 8 players person when each committee must include 2 particular persons	A. 8! B. 5!3! C. 5! D. 20

15	Question Image	A. cos x B. sec x tan x C. $\sec^2 x$ D. $-\csc^2 x$
16	Question Image	
17	If a > b or a < b than a = b is a	A. Additive property B. Transitive property C. Trichotomy property of inequality
18	2π is the period of	A. sin□ B. tan□ C. cot□ D. all circular function
19	The coefficient of xn in the expansion of (1-2x)-1 is	A. (-1)n2n B. 2n C. (-1)(n+1)xr D. (n+1)2n
20	The number of different ways of describing a set is	A. One B. Two C. Three D. Four