Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	The roots of the equation $2^{2x} - 10.2^x + 16 = 0$ are	A. 2, 8 B. 1, 3 C. 1, 8 D. 2, 3
2	The number of triplets (x, y, z) satisfying $\sin^{-1}x + \cos^{-1}y + \sin^{-1}z = 2\pi$ is	A. 0 B. 2 C. 1 D. Infinite
3	Question Image	
4	Question Image	
5	If $|\alpha i + (\alpha+1)j + 2k| = 3$ then value of α is	A. 1,2 B. -1,-2 C. 1,-2 D. -1,2
6	The slope of x-axis is	A. 0 B. undefined C. 1
7	Question Image	
8	The 31 term of the A.P 5,2,-1.....is	A. -82 B. 82 C. 85 D. -85
9	Question Image	B. $x^{-2} + c$ D. not possible
10	$w^{-1} = $ _____	A. 0 B. 1 C. w D. w^2
11	$\cos(\alpha+\beta) + \cos(\alpha-\beta) =$	A. $4\cos\alpha\cos\beta$ B. $2\cos\alpha\cos\beta$ C. $2\sin\alpha\sin\beta$ D. $2\sin\alpha\cos\beta$
12	The set {0,-1} hold closure property under	A. Addition B. Both a & c C. Multiplication D. None of these
13	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. $2r^2$ C. $3r^2$ D. $4r^2$
14	The sum of first n even number is	A. n2 B. n(n+1) C. n+1 D. n+2
15	Question Image	A. 1 / 2 B. 1 / 3 C. 1 / 4 D. None of these

16	Question Image	
17	The logic in which every statement is regarded as true or false and no other possibility is called	A. Aristotelian login B. Inductive logic C. Non-Aristotelian logic D. None of these
18	An improper rational fraction can be reduced by division to a	A. Proper fraction B. Polynomial C. mixed form
19	If cos (2 sin-1 x) = 1/9 , then what is the value of x?	A. 1/3 B. -2/3 C. 2/3 D. 2/3 , -2/3
20	Which of the following integrals can be evaluated	

A. Aristotelian login
B. Inductive logic
C. Non-Aristotelian logic
D. None of these

A. Proper fraction
B. Polynomial
C. mixed form

A. 1/3
B. -2/3
C. 2/3
D. 2/3 , -2/3