Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Rational number is a number which can be written as a terminating decimal fraction or a	A. Non-terminating decimal fraction B. Non-recurring C. Recurring decimal fraction D. a, b and c
2	A circle is a limiting case of an ellipse whose eccentricity	A. Tends to a B. Tends to b C. Tends to 0 D. Tends to a + b
3	What is the period of $\cos 6x$ =?	A. $\pi/2$ B. $\pi/3$ C. $\pi/4$ D. π
4	The set of even prime numbers is	A. $(2,4,6,8,10\}$ B. $\{2,4,6,8,10,12\}$ C. $\{1,3,5,7,9\}$ D. $\{2\}$
5	Question Image	
6	Question Image	
7	Which of the following integrals can be evaluated	
8	Question Image	
9	The key for opening a door is in a bunch of 10 keys. A man attempts to open the door by trying the keys at random discarding the wrong key. The probability that the door is opened in the 5th trial is	A. 1 / 10 B. 2 / 10 C. 3 / 10 D. 4 / 10
10	If $x+y+z+......+2n = 2n+1-1 \,\forall\, n \in W$, then cube root of xyz is equal to	A. 1 B. 4 C. 2 D. 8
11	The only function which is both even and odd is	A. $f(x) = \alpha$ B. $f(x) = x$ C. $f(x) = 0$ D. Both A & B
12	Question Image	
13	Question Image	
14	Question Image	
15	$(\sqrt{3}+\sqrt{5})+\sqrt{7} = \sqrt{3} +(\sqrt{5} +\sqrt{7})$ property used in above is	A. Commutative property of addition B. Closure property of addition C. Additive inverse D. Associative property w.r.t to adition
16	Inverse of the function y-10x is	A. y=logx B. y=lnx C. x=10y D. x=10y
17	Question Image	
18	Inequalities have _____ symbol	A. 2 B. 3 C. 4 D. 1
19	Question Image	A. (a + b)c = a . c + bc B. a + b = b + a C. (a + b) + c = a + (b + c) D. a(b+ c) = ab + ac
20	If A is a non singular matrix then A^{-1}= _____	