Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	The smallest positive root of the equation tan x - x = 0 lies on	
2	The polynomial x - a is a factor of the polynomial f(x) if and only if	A. f(a) is positive B. f(a) is negative C. f(a) = 0 D. None of these
3	Digit in the unit place of the number $183! + 3^{183}$	A. 7 B. 6 C. 3 D. 0
4	Question Image	
5	The set of natural no. is closed under	A. multiplication B. subtraction C. difference D. division
6	Question Image	A. (-1, 2) B. (-1, 1) C. (1, 2) D. {-1}
7	The number of standard parabolic functions are is	A. 4 B. 2 C. 3 D. 1
8	Question Image	A. images B. pre-images C. constants D. none of these
9	The set {1, 2, 3, 4, ...} is called	A. Set of Natural numbers B. Set of whole numbers C. Set of rational number D. Set of irrational numbers
10	Let A is a 3 x 3 matrix and B is its adjoint matrix. If |B| = 64, then |A| =	
11	The equation of the circle with centre (-h, -k) and radius r is	A. $(x+h)^2 + (y+k)^2 = r^2$ B. $(x+h)^2 + (y-k)^2 = r^2$ C. $(x-h)^2 + (y+k)^2 = r^2$ D. $(x-h)^2 + (y-k)^2 = r^2$
12	Which of the following is a scalar.	A. force B. frequency C. weight D. acceleration
13	If $b^2 - 4ac = 0$ then the roots of the equation are	A. Real and distinct B. Real and equal C. Imaginary D. None of these
14	The value of $\sin^{-1} 5/13$ is equal to	A. Cos 5/13 B. $\tan^{-1} 5/12$ C. $\cos^{-1} 5/12$ D. $2\cos^{-1} 4/5$
15	tan270° =_____;	A. 0 B. 1 C. -1 D. Undefined
16	If S is a sample space and event set E = S then P(E) is	A. >0 B. 1 C. <1 D. 0

17	H.M. between 3 and 7 is	
18	Question Image	A. 8 B. 1/56 C. 56 D. None of these
19	Every term of a G.P. is positive and also every term is the sum of two preceding terms. Then the common ratio of the G.P. is	
20	The negation of a number	A. a relation B. a function C. unary operation D. binary operation