Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Number of selections of n different things out of n	A. 1 B. nPr C. n! D. nPr
2	Question Image	
3	Question Image	A. 1, 2, 3 B. 1, 5, 9 C. 2, 5, 8 D. 3, 6, 9
4	If S is a sample space and event set E = S then P(E) is	A. >0 B. 1 C. <1 D. 0
5	If n is odd then the middle terms in the expansion of $(a + x)^n$ are	
6	The smallest positive root of the equation tan x - x = 0 lies on	
7	Question Image	D. none of these
8	Question Image	A. Singleton set B. A set with two points C. Empty set D. None of these
9	The coefficient of the third term of $(8a-b)^{1/3}$, after simplification is	A. -228 B. 1/288 C. 1/220 D. -1/177
10	The sum even binomial coefficient of (3+2x)5 is _____term	A. 16 B. 30 C. 8 D. 32
11	The largest possible domain of the function: $y=\sqrt{(x)}$ is:	A. (0 ,∞) B. 12 C. (3 , 12) D. (3 ,∞)
12	The number of values of x in the interval [0, 5π] satisfying the equation $3 \sin^2 x - 7 \sin x + 2 = 0$ is	A. 0 B. 5 C. 6 D. 10
13	Question Image	
14	Question Image	A. 2 B. 4 C. 8 D. 16
15	For each even natural number n (n^2-1) is divisible by	A. 6 B. 3 C. 4 D. 8
16	The multiplicative inverse of x such that x = 0 is	A. -x B. Does not exist C. 1/x D. ±1
17	A point (x,y) which satisfy a linear inequality in two variables form its	A. Solution B. Domain C. Range D. None
18	The range of y=x2 + 1 is the set of non-negative real numbers except	A. 0≤ y < 1 B. 0 < y < 1 C. 0≤ y≤ 1 D. 0 < 1

19	Range of tan x is _____	A. [-1, -] B. R C. Negative real numbers D. R - {x | - 1 < x < 1}
20	Question Image	