Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Every recurring decimal represents	A. A natural number B. A rational number C. An irrational number D. A whole number
2	Question Image	
3	The range of the tangent function is	A. all real numbers B. $-1 \le x \ge 1$ C. natural number D. z^+
4	If E = { } , then P(E)	A. $\varnothing$ B. { } C. {(2),(4),(6)....} D. $(\varnothing)$
5	Question Image	
6	If (a, b) is the mid-point of a chord passing thro' the vertex of the parabola $y^2 = 4x$, then	A. $a = 2b$ B. $2a = b$ C. $a^2 \ge 2b$ D. $2a = b^2$
7	Question Image	
8	Range of tan x is _____	A. [-1, -] B. R C. Negative real numbers D. $R - \{x \mid -1 < x < 1\}$
9	For $f(x) = x^2 + px + 1$, if f(3) = 3 then P =	A. 3/7 B. -2/5 C. -7/5 D. -7/3
10	A dice is rolled. The probability that the dots on the top are greater than 4 is	A. 1/6 B. 1/3 C. 1/2 D. 1
11	Given two independent event A and B such that P(A) = 0.30 and P(B) = 0.60. Probability of getting neither A nor B is	A. 0.28 B. 0.13 C. 0.12 D. 0.42
12	(ABC)' =	A. CBA' B. CBA C. C' B' A' D. None of these
13	The distance between the points (0 , 0) and (1, 2) is	A. 5 C. 0 D. 3
14	$\cot\theta = \sin 2\theta$ if $\theta =$	
15	Question Image	
16	What is the number of elements of the power set of { }	A. 0 B. 1 C. 2 D. 3
17	Question Image	
18	Question Image	A. -2 B. -1 C. 1 D. 2
19	Question Image	D. none of these

20	Area of the triangle whose vertices are (2,3),(0,1),(0,0) is	A. 6
		B. 2
		C. 4
		D. 1