Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	$(0.90)^{1/2}$ is equal to	A. 0.99 B. 0.90 C. 0.80 D. 0.88
2	How many term are there in the A.P, in which $a_1 = 11$, $a_n = 68$, d=3	A. 30 B. 27 C. 20 D. 21
3	A box containing 10 mangoes out of which 4 are rotter. Two mangoes are taken together from the box. If one of them is found to be good, the probability that the other is also good is	A. 1 / 3 B. 8 / 15 C. 5 / 13 D. 5 / 9
4	The constant distance of all points of the circle from its centre is called the	A. radius of the circle B. secant of the circle C. chord of the circle D. diameter of the circle
5	The sum of first twenty odd integers in A.P is	A. 400 B. 397 C. 404 D. 408
6	Question Image	A. 0 B. -1 C. 1
7	The maximum value of $\sin\theta\cos\theta$ is	A. 1 B. 1/2 C. 1/4 D. 1/6
8	The line y = 4x + c touches the hyperbola $x^2 - y^2 = 1$ if	
9	(A∩Bc)c= ----------	A. Ac∪Bc B. Ac∪B C. Ac∩B D. None of these
10	Question Image	A. n < 8/5 B. n < 5/8 C. |n| < 8/5 D. |n|>8/5
11	Range of cot x is _____	A. [-1, 1] B. R C. Negative real numbers D. R - {x | - 1 < x < 1}
12	If a polynomial p(x) is divided by x-c, then the remainder is	A. p(x) B. x-c C. c D. P(c)
13	If the roots of $ax^2 - bx - c = 0$ change by the same quantity, then the expression in a, b, c that does not change is	
14	sin(a-90°)=_____;	A. sina B. cosa C. -sinθ D. -cosa
15	An equation containing at least one derivative of a depends variable with respect to independent variable is a (an)	A. Implicit equation B. Differential equation C. General equation D. None of these
16	One root of the equation cos x - x + 1/2 = 0 lies in the interval	
17	Question Image	A. 3/4 B. r C. v

		D. None of these
18	A card is drawn from a pack of cards numbered 1 to 52, the probability that the number on the card is a perfect square is	A. 1/13 B. 2/13 C. 7/52 D. None of these
19	A combination lock on a suitcase has 3 wheels each labeled with nine digits from 1 to 9. If an opening combination is a particular sequence of three digits with no repeats, the probability of a person guessing the right combination is	A. 1 / 500 B. 1 / 504 C. 1 / 252 D. 1 / 250
20	_____ invented a symbolic way to write the statement "y is a function of x" as y= f(x)	A. Leibniz B. Newton C. Euler D. None of these