Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image	A. 0 B. 1 C. -1 D. None
2	Given two numbers a and b. Let A denote the single A.M. between these and S denote the sum of n A.M.'s between them. Then S/A depends upon	A. n, a, b B. n, a C. n, b D. n
3	In the interval $0 \le x \le \pi$, the sine is	A. Not a function B. Not defined C. Infinity D. Not one-to-one function
4	If we have a statement "if p then q" then q is called	A. Conclusion B. Implication C. Unknown D. Hypothesis
5	Question Image	
6	The number of significant numbers which can be formed by using any number of the digits 0, 1, 2, 3, 4 but using each not more than once in each number is	A. 260 B. 356 C. 410 D. 96
7	Question Image	B. $\ln(x^2 - x + 1) + c$ D. $\ln(2x - 1) + c$
8	ax + by < c is linear inequality in	A. four variables B. three variables C. two variables D. one variable
9	The angle of depression of a point A on the ground from the top of the tower is $30\Box$, then the angle of elevation of the top of the tower at the point A is	A. $60\Box$ B. $40\Box$ C. $41\Box$ D. $30\Box$
10	Multiplying each side of an inequality by (-1) will:	A. Not effect B. Change the sign C. Become zero D. Not defined
11	If uv= Projuv then	A. Uandvare parallel B. vis a unit vector C. Uis a unit vector D. Both b and c
12	The equations of the line thro' the point (2, 3, -5) and equally inclined to the axis are	
13	Question Image	A. 0 B. 1 C. 2
14	A bag contains 7 whit, 5 black and 4 rd balls. If two balls are drawn at random from the bag, the probability that they are not of the same color is	A. 73 / 120 B. 83 / 120 C. 67 / 120 D. 43 / 120
15	Question Image	
16	For all points (x,y) on y-axis	A. x is positive B. x = 0 C. x is negative D. y = 0
17	$\sin^2 \pi/6 + \sin^2 \pi/3 + \tan^2 \pi/4 = _____$;	A. 1 B. 2 C. 3 D. 4
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18	Range of $\cot\theta$ is	A. (∞ to $-\infty$) B. (-1 to +1) C. (-5 to +5) D. Set of even numbers only
19	For all positive integral value of n, $3^n < n!$, when	A. $n > 6$ B. $n < 6$ C. $n < 11$ D. $n > 11$
20	The angle of elevation of the top of a tree from a point 17 meters from is foot is 42° The height of the tree is	A. 12m B. 21m C. 17m D. 15m