Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	If a_1 and r are the first term and the common ratio respectively then (n + 1)th term of the G.P. is	A. 0 B. $a_1 r^{n-1}$ C. $a_1 r^{n+1}$ D. $a_1 r^n$
2	If a, b, c, d, e, f are in A.P., then e-c is equal to	A. 2(c - a) B. 2(f - d) C. 2(d - c) D. d - c
3	(-28,12) divides the join of A(-6,3) and B(5,-2) in ratio	A. 1:2 B. 3:2 C. 2:3 D. 2:1
4	Period of Tangent function is	A. 0° B. $-\pi$ C. π D. 2π
5	Period of Cotangent function is	A. π B. $-\pi$ C. 0 D. -2π
6	Question Image	A. c/a B. -c/a C. b/a D. -b/a
7	Question Image	A. n! B. 0! C. 1 D. None of these
8	The angle of depression of a point situated at a distance of 70 meters from the base of a tower is 45°. The height of the tower is	A. 70 m B. 85 m C. 35 m D. None of these
9	Question Image	A. 1 B. -1 C. 5 D. 2
10	Vector $\underline{i}$ =	A. [1,0] B. [0,1,0] C. [0,0,1] D. None of these
11	The towers each 120 meters high are 800 meters apart. The measure of the angle of elevation from the base of one tower to the top of the other is	A. $12^\square$ B. $9^\square$ C. $7^\square$ D. $-120^\square$
12	A fraction in which the degree of the numerator is less the degree of the denominator is called	A. Polynomial B. Proper fraction C. Rational fraction D. None
13	The law of sines is	A. a-1

14	(a-1)-1 =	B. a C. -a D. None of above
15	There are _____ basic techniques for solving a quadratic equation	A. Two B. Three C. Four D. None of these
16	Question Image	
17	G is geometric mean between a and b if a, G, b is	A. A.P. B. G.P. C. H.P. D. None of these
18	Question Image	
19	A die is thrown 100 times. If getting an odd number is considered a success, the variance of the number of successes is	A. 50 B. 25 C. 10 D. 100
20	A function F(x) is called even if	A. F(x) = F (-x) B. F(x) = F(-x) C. F(x) = -F(x) D. 2F(x) = 0