Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	When the angle between the ground and the sun is $30^\square$, flag pole costss a shadow of 40 mg long. the height of the top of the flag is	A. 25m B. 23m C. 12m D. 29m
2	A man of height 6 ft observes the top of a tower and the foot of the tower at angles of 45° and 30° of elevation and depression respectively. The height of the tower is	
3	$\sin\alpha =$	A. $2\sin\alpha\cos\alpha$ B. $2\sin\alpha\cos\beta$ C. $2\sin\alpha/2\cos\alpha/2$ D. $1+\tan^2\alpha/2$
4	The roots of the equation $2^{2x} - 10.2^x + 16 = 0$ are	A. 2, 8 B. 1, 3 C. 1, 8 D. 2, 3
5	If p, q, r and in A.P., a is G.M. between p and q and b is G.M. between q and r, then a^2, q^2, b^2 are in	A. A.P. B. G.P. C. H.P. D. None of these
6	The symbol of irrational is	A. W B. N C. Q D. Q'
7	$f(x) = 2x^2 + 3x + 5$ is a	A. trigonometric function B. algebraic function C. exponential function D. logarithmic function
8	The solution set of trigonometric equation contains	A. one element B. two elements C. three elements D. Infinite elements
9	The period of |sin2x| is	A. π/2 B. -π/2 C. π D. π/3
10	The angle between the vectors 3i + j - k and 2i - j + k is	
11	$Q \cup Q' =$	A. Q B. Q' C. N D. R
12	Question Image	A. 2 B. -3/2

#	Question	Options
		C. 1 D. 0
13	The transpose of a zero matrix is a _____	A. Column matrix B. Zero matrix C. Row matrix D. Scalar matrix
14	Question Image	
15	f(x) = 1 is	A. identity function B. constant function C. linear function D. quadratic function
16	The formula $a_n = ar^{n-1}$ represents	A. nth term of G.P B. Sum of the first n terms C. G.M between a and b D. None of these
17	The distance of the point (2,-3) from y-axis is	A. 2 B. -3 C. 1 D. 5
18	The period of tan [x/3] is _____	A. 2π B. 4π C. 3π D. 5π
19	Question Image	A. sec 3x + c B. - cosec 3x + c
20	For trival solution |A| is	A. A B. |A| is non zero C. A = 0 D. None of these