Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	$\cos 315° = $ _____	
2	If $A(x_1, y_1)$, $B(x_2, y_2)$ and $C(x_3, y_3)$ are the vertices of a triangle then its centroid is	
3	$f(x) = \log x + 3$ is a	A. trigonometric function B. algebraic function C. exponential function D. logarithmic function
4	A square matrix A for which $A^t = A$ is called a	A. Column matrix B. Symmetric matrix C. Skew-symmetric matrix D. Row matrix
5	The set $(Q, .)$	A. Forms a group B. Does not form a group C. Contains no additive identity D. Contains no additive inverse
6	Question Image	A. -1 B. 0 C. 1 D. undefined
7	Question Image	
8	Which of the following is a vector	A. length B. momentum C. volume D. speed
9	The 26th term of the A.P -2,-4,10,.............is	A. 136 B. -136 C. 148 D. -148
10	A kite flying at a height of 67.2 m is attached to a fully stretched string inclined at an angle of 53 to the horizontal, the length of the string	A. 62m B. 82m C. 73m D. 57m
11	The negative square root of 9 can be written as:	A. $-\sqrt{9}$ B. $\sqrt{9}$ C. $\sqrt{18}$ D. $-\sqrt{18}$
12	$\tan(\alpha-\beta) =$	
13	If $f(x) = a_0 + a_1x + a_2x^2 + a_3x^3 ----- + 0_{n-1}x_{n-1} + a_nx_n$ then $f(n)(x)$ is equal to	A. n! B. a_n n! C. 0 D. a_n
14	$w^{-1} = $ _____	A. 0 B. 1 C. w D. w^2
15	Question Image	A. n < 8/5 B. n < 5/8 C. |n| < 8/5 D. |n|>8/5
16	$2\cos^2 a/2 = $ _____ ;	A. 1+sina B. 1-sina C. 1+cosa D. 1-cosa
17	if $f(x) = x^3 - 3x^2 + 5x - 1$, then $f(-\sqrt{2}) =$	A. $7+7\sqrt{2}$ B. $3+3\sqrt{2}$ C. $-7-7\sqrt{2}$ D. $-3-3\sqrt{2}$

18	Question Image	
19	If P is a whole number greater than 1, which has only P and I are factors. Then P is called	A. Wholw number B. Prime number C. Even number D. Odd number
20	The points of intersection of the line $y = 2x -3$ and the circle $x^2 + y^2 - 3x = 2y -3 = 0$ are:	A. two B. three C. less thean two D. not intersect