

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	w ¹¹ =	A. 0 B. 1 C. w D. w ²
2	Domain of cosec x is	
3	The graph of the linear equation of the form ax =by = c is a line which divided the plane into:	A. Two similar regions B. Two disjoint regions C. Four equal parts D. One region
4	Question Image	
5	Which of the following sets has closure property w.r.t. addition	A. { 0 } B. { 1 } C. { 0, -1} D. { 1, -1}
6	If one end of the diameter of the circle $x^2 + y^2$ - $5x = 3y - 22 = 0$ is (3,4) the other end is:	A. (2,7) B. (-2,-7) C. (-2,7) D. (2,-7)
7	An integral of 1/x dx is:	A. 1/x ² B. 1/-x ² C. 1/lnx D. lnx
8	The matrix A = [aij]1xn is a	A. Vector B. Rectangular matrix C. Column vector D. Square matrix
9	Three consecutive terms of a progression are 30, 24, 20. The next terms of the progression is	
10	If α , β are the roots of ax ² + bx + c = 0 and α + h, β + h are the roots of px ² + qx + r=0, then h =	
11	Question Image	A. I3 B. rl3 C. r D. none
12	If $f(x) = x^2 - x$ then $f(1)$ is	A. 0 B. 1 C. 2 D. 3
13	3/2 is	A. An irrational numberB. Whole numberC. A positive integerD. A rational number
14	The distance between the points (2,3) and (3,2) is	A. 5 C. 2 D. 10
15	Question Image	
16	cos 3a =;	A. 3sin a - 4sin3 a B. 4sin a - 3sin3 a C. 3cos3 a - 4cos a D. 4cos3a - 3cos a
17	General solution of 1 + cos x = 0 is	
18	The range of the function $f: x \rightarrow y$ is defined by	A. $\{x \mid y = f(x) \ \forall x \in X \land y \in y\}$ B. $\{(x,y) \mid y = f(x) \ \forall x \in X\}$ C. $\{y \mid y = f(x) \ \forall x \in X \land y \in y\}$ D. Y
		A. 3

19	The maximum value of the quadratic function $f(x) = 2x^2-4x+7$, is	B. 5 C3 D5	
20	In R, the multiplicative identity is	A. 0 B. 1 C1 D. None	