

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image	
2	Question Image	A. 2 b B. 2 a C. 2 ab D. a + b
3	Question Image	
4	E-radius corresponding to < B is	
5	Which conjunction is not true?	
6	Question Image	
7	Projection of vector u along v is	A. v cosθ B. u cosθ C. v sinθ D. u sinθ
8	The range of the function $f: x \rightarrow y$ is defined by	A. $\{x y = f(x) \ \forall x \in X \land y \in y\}$ B. $\{(x,y) y = f(x) \ \forall x \in X\}$ C. $\{y y = f(x) \ \forall x \in X \land y \in y\}$ D. Y
9	A square matrix A = [aij] is upper triangular when	A. cij = 0 B. bij = 0 C. aij = 0 for all i > j D. dij = 0
10	Domain of 1+cot2θ=csc2θ is	A. $[0,\pi]$ B. $R-\{x/x=n\pi,n \in z\}$ C. $(-\infty,+\infty)$ D. $[-1,1]$
11	The sum of n terms of a series is denoted by	A. d B. n C. S _n D. a _n
12	Question Image	A. 2, 3 B. 3, 3 C. 2, 6 D. 2, 4
13	The multiplicative inverse of x such that $x = 0$ is	Ax B. Does not exist C. 1/x D. ±1
14	The value of sin 28°cos 17°+cos 28°sin 17°is	
15	The solution of the equation 3 tan ² x = 1 is	D. none of these
16	In set builder notation the set {0,1,2,100} can be written as	A. $\{x \mid x \in B\ \land x \le 100\}$ B. $\{x \mid x \in W\ \land x\ \< 101\}$ C. $\{x \mid x \in Z \land x\ \< 101\}$ D. The set of first 100 whole numbers
17	The equation of the parabola with directirx $x = 2$ and the axis $y = 0$ is	A. y ² = 8x B. y ² = -8x C. y ² = 4x D. y ² = -4x
18	Question Image	D. none of these
19	Number of lines passing through three non-collinear points is	A. 2 B. 3 C. 1 D. 0
		E. ∞