

## Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	$22.5^\circ = \underline{\hspace{2cm}}$	
2	The matrix A is Hermitian when $(A)' =$	A. A B. -A C. A D. A'
3	The negation of given number is a	A. Binary operation B. Unary operation C. Relation D. None of these
4	<input type="text" value="Question Image"/>	
5	<input type="text" value="Question Image"/>	A. $3 \sec^2 x$ B. $3 \sec^2 3x$ C. $\sec^2 3x$ D. $\sec^2 x$
6	For non-trivial solution $ A $ is	A. non zero B. $A = 0$ C. $ A  = 0$ D. $At = 0$
7	A bag contains 3 white, 4 black and 2 red balls. If 2 balls are drawn at random, then the probability that both the ball are white is	A. $1/18$ B. $1/12$ C. $1/36$ D. None of these
8	If the sum of two unit vectors is a unit vector the the magnitude of their difference is	A. $\sqrt{2}$ B. $\sqrt{3}$ C. 1 D. None of these
9	Co-ordinate of a point on the parabola $y^2 = 8x$ whose focal distance is 4 are:	A. (2, 4) B. (-2, -4) C. (-2, 4) D. (2, -4)
10	If $a, \beta$ are the roots of the equation $x^2 + kx + 12 = 0$ such that $a - \beta = 1$ , the value of k is	A. 0 B. $\pm 1$ C. $\pm 5$ D. $\pm 7$
11	$A = [3]$ is a/an	A. Square matrix B. Scalar matrix C. Diagonal matrix D. Identity matrix
12	The set $\{\{a, b\}\}$ is	A. Infinite set B. Singleton set C. Two points set D. None
13	The 6th term of the sequence 7,9,12,16.....is	A. 27 B. 32 C. 20 D. 19
14	One minute is denoted by	A. $1^{\sup>0\sup>}$ B. 1' C. 1" D. None of these
15	If A is any matrix then its additive inverse is	A. A B. $A^{\sup>-1\sup>}$ C. $A^{\sup>t\sup>}$ D. -A
16	A triangle has _____ elements	A. 3 B. 4 C. 5 D. 6

17	Question Image	
18	Which of the following is a scalar	A. weight B. force C. speed D. momentum
19	If a set S contains n elements then P (S) has ..... number of elements	A. $2^n$ B. $2^{n^2}$ C. 2.n D. $n^2$
20	Sin 90° = _____	A. -1 B. 0 C. 1 D. Undefined