

## Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	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
2	Question Image	A. 3 B. 6 C. 0 D. None of these
3	Question Image	A. an A.P. B. a G.P. C. a H.P. D. None of these
4	Question Image	
5	The set $\{1, -1, i, -i\}$ form a group under	A. Addition B. Multiplication C. Subtraction D. None
6	The common point to four standard parabolas	A. Focus B. Centre C. Vertex D. $P(x, y)$
7	Question Image	
8	If $4 - x > 5$ , then	A. $x > 1$ B. $x > -1$ C. $x < 1$ D. $x < -1$
9	Question Image	
10	If the angle between two vectors $\underline{u}$ and $\underline{v}$ is $0$ or $\pi$ , then the vectors $\underline{u}$ and $\underline{v}$ are:	A. Orthogonal B. Collinear C. Perpendicular D. None of these
11	Which of the following is factor of $x^{2n+1} + a^{2n+1}$ , where n is an odd integer	A. $x-a$ B. $x+a$ C. $2x-a$ D. $2x+a$
12	$x^2 + x - 6 = 0$ is	A. An equation B. An identity C. A polynomial D. None of these
13	The difference of two consecutive terms of an A.P. is called _____	A. General term B. Common ratio C. Common difference D. None of these
14	Question Image	A. 0 D. undefined
15	The order axioms are satisfied by set of	A. C B. C and R C. R D. None of these
16	A monoid $(G, *)$ is said to be group if	A. have identity element B. is commutative C. have inverse of each element D. None of these
17	The tangents drawn from the point P to a circle are real and distinct if	A. P is on the circle B. P is inside the circle C. P is outside the circle D. none of these

18	Question Image	A. $360^\circ$ B. $180^\circ$ C. $90^\circ$ D. None of these
19	If $A=B$ , then	A. $A \subset B$ and $B \subset A$ B. $A \subseteq B$ and $B \not\subseteq A$ C. $A \subseteq B$ and $B \subseteq A$ D. None of these
20	Question Image	A. A positive integer B. A negative integer C. A natural number D. An irrational number