

## Mathematics General Science Test Medium Mode

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Sr	Questions	Answers Choice
1	Question Image	D. none of these
2	Question Image	A. Polynomial of degree 0 B. Polynomial of degree 2 C. Quadratic equation D. None of these
3	In an A.P,a +(n-a)d is	A. 1st term B. General term C. Last term D. None of these
4	Question Image	A. 1 + tan <sup>2</sup> x + c B. tan x + c Ctan x + c D. cot x + c
5	The multiplicative inverse of x such that $x = 0$ is	Ax B. does not exist C. 1/x D. 0
6	Question Image	A. 16 B. 256 C. 64 D. 1024
7	if one root of the equation ix2 - $2(i + 1) \times +(2 - i) = 0$ is 2 - i then the other root is	Ai B. 2 + i C. i D. 2 - i
8	Question Image	A. Conclusion B. Implication C. Antecedent D. Hypothesis
9	Range of $\sin\! heta$ is	
10	Two circles x2 +y2 +8x -9= 0 and x2+y2+6y +k =0 touchinternallyif the value of k is	A. k = 9 B. k = ±9 C. k=-9 D. k=11
11	Question Image	A. 5 B. 10 C. 20 D. 30
12	Question Image	A. sin h x B. cos h x C. tan h x D. cot h x
13	Matrices A = [aij] 2 x 3 and B =[bij] 3 x 2 are suitable for	A. BA B. A <sup>2</sup> C. AB D. B <sup>2</sup>
14	If k2x2 +2hxy- 4y2 =0 represents two perpendicular lines then	A. k = 2 B. k = ±2 C. k = -2 D. k ≠0
15	The transpose of a row matrix is a	A. Zero matrix B. Diagonal matrix C. Column matrix D. Row matrix
16	Question Image	A. Additive property of inequality B. Commutative property C. Additive inverse D. Additive identity

7	cos 315° =	
8	The straight line passing through the focus and perpendicular to the directrix of the conic is known as its	A. Tangent B. axis C. Focal chord D. major or manor axis
9	x = 1 is in the solution of the inequality	A. x + 1 > 0 B. x - 2 > 0 C. 3x - 1 < 0 D. x + 2 < 0
	For a square matrix A, if $A = A^t$ , then A is called	A. matrix B. Transpose C. Symmetric D. Non-symmetric