

## Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image	
2	$0! = \underline{\hspace{2cm}}$	A. 0 B. 1 C. 2 D. Not defined
3	Question Image	D. none of these
4	The perpendicular bisector of any chord of a circle	A. Passes through the centre of the circle B. Does not pass through the centre of the circle C. May or may not pass through the centre of the circle D. None of these
5	A right angle is the angle of measure	A. 90' B. 60° C. 60" D. 90°
6	Question Image	
7	Every identity matrix is	A. Row-vector B. Scalar C. Column-vector D. All
8	If we have a statement "if p then q" then q is called	A. Conclusion B. Implication C. Unknown D. Hypothesis
9	Projection of vector u along v is	A. $ v  \cos\theta$ B. $ u  \cos\theta$ C. $ v  \sin\theta$ D. $ u  \sin\theta$
10	Question Image	
11	Question Image	
12	The term independent of x is the expansion $(x^3+1/x)^{12}$	A. 295 B. 495 C. 395 D. 722
13	Question Image	A. $100x^{99}$ B. $100x^{101}$ C. $-99x^{99}$ D. $-100x^{101}$
14	Question Image	
15	$(f \circ g)'(x) = f'(g(x))g'(x)$ is derivative by	A. Chain rule B. Reciprocal rule C. Power rule D. Product rule
16	If l, m, n are the d.c.'s of a line, then	A. $l^2 + m^2 + n^2 = 0$ B. $l^2 + m^2 + n^2 = 1$ C. $l + m + n = 1$ D. $l = m = n = 1$
17	Question Image	
18	Question Image	
19	The set $\{1, -1, i, -i\}$ form a group under	A. Addition B. Multiplication C. Subtraction D. None

