

## Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image <input style="width: 500px; height: 20px;" type="text"/>	<p>A. Parallel to the plane</p> <p>B. At right angles to the plane</p> <p>C. Lies in the plane</p> <p>D. Meet the plane obliquely</p>
2	The value of $i^{4n+1}$	<p>A. 1</p> <p>B. -1</p> <p>C. <math>i</math></p> <p>D. <math>i^{2^2}</math></p>
3	The set $\{1, -1, i, -i\}$	<p>A. Form a group w.r.t addition</p> <p>B. Form a group w.r.t multiplication</p> <p>C. Does not form a group w.r.t multiplication</p> <p>D. Not closed under multiplication</p>
4	Question Image <input style="width: 500px; height: 20px;" type="text"/>	<p>A. <math>f(x) = x^2</math></p> <p>B. <math>f(x^2) = x</math></p> <p>C. <math>f(x) = x</math></p> <p>D. none of these</p>
5	The common ration of a geometric sequence cannot be	<p>A. 0</p> <p>B. 1</p> <p>C. 2</p> <p>D. 3</p>
6	$[i, j, k]$	<p>A. 0</p> <p>B. 2</p> <p>C. 1</p> <p>D. -2</p>
7	The point which divides the line joining the points (2, 4, 5) and (3, 5, -4) in the ratio -2 : 3 lines on	<p>A. ZOY plane</p> <p>B. XOY plane</p> <p>C. YOZ plane</p> <p>D. None of these</p>
8	An ellipse slides between two lines at right angles to one another. The locus of its centre is :	<p>A. a parabola</p> <p>B. an ellipse</p> <p>C. a circle</p> <p>D. a hyperbola</p>
9	Question Image <input style="width: 500px; height: 20px;" type="text"/>	<p>A. 0</p> <p>B. 1</p> <p>D. -1</p>
10	How many committees of 5 numbers can be chosen from a group of 8 players person when each committee must include 2 particular persons	<p>A. 8!</p> <p>B. <math>5!3!</math></p> <p>C. 5!</p> <p>D. 20</p>
11	If x is an image of y under the function f. This can be written as	<p>A. <math>y = f(x)</math></p> <p>B. <math>f(x) = 0</math></p> <p>C. <math>x = f(y)</math></p> <p>D. <math>f(y) = 0</math></p>
12	The range of the principle cos function is	
13	Question Image <input style="width: 500px; height: 20px;" type="text"/>	D. none of these
14	If a polynomial P(x) is divided by $x + a$ , then the remainder is	<p>A. P(a)</p> <p>B. P(-a)</p> <p>C. P(0)</p> <p>D. None of these</p>
15	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
16	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
17	If $u = xi + yj$ , then $ u $	<p>A. <math>x^2 + y^2</math></p> <p>B. <math>(x^2 + y^2)^2</math></p> <p>C. <math>x^2 - y^2</math></p> <p>D. <math>\sqrt{x^2 + y^2}</math></p>

18	The number of x-intercepts of $y = \sin x$ in his period	A. 0 B. 1 C. 2 D. 3
19	The vertex of the standard position angles lies on	A. (0,0) B. (0,1) C. (1,0) D. (1,1)
20	$\{x x \in \mathbb{R} \wedge x \neq x\}$ is a	A. Infinite set B. Null set C. Finite set D. None of these