

## Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	<input type="text" value="Question Image"/>	
2	<input type="text" value="Question Image"/>	
3	$(A \cap B) \subset C =$ -----	A. $A \cup B \subset C$ B. $A \cup B \subset C$ C. $A \subset B \subset C$ D. None of these
4	If $f(a) = b^2$ and $g(c) = d$ where $c = b^2$ then $(g \circ f)(a)$ is	A. $a$ B. $c$ C. $b$ D. $d$
5	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 minor axis
6	<input type="text" value="Question Image"/>	
7	For any integer $k$ , $w^n =$ _____ when $n = 3k$	A. 1 B. 2 C. 0 D. -4
8	The slope of x-axis is	A. 0 B. undefined C. 1
9	The value of $x$ , and $y$ , when $(x + iy)^2 = 5 + 4i$	A. $X = 2, y = 1$ B. $X = -2, y = 1$ C. $X = 2, y = -1$ D. $X = 2, y = 2$
10	The solution set of $x^2 - 5x + 6 = 0$ is	A. $\{1, 3\}$ B. $\{2, 3\}$ C. $\{1, 2\}$ D. None of these
11	The maximum value of the quadratic function $f(x) = -2x^2 + 20x$ , is	A. 4 B. 3 C. 50 D. 7
12	<input type="text" value="Question Image"/>	
13	<input type="text" value="Question Image"/>	
14	<input type="text" value="Question Image"/>	
15	For a square matrix $A$ , if $A = A^t$ , then $A$ is called	A. matrix B. Transpose C. Symmetric D. Non-symmetric
16	If the $p$ th, $q$ th, and $r$ th terms of an A.P. are in G.P., then the common ratio of the G.P. is	
17	Additive inverse of $-a - b$ is	A. $a$ B. $-a + b$ C. $a - b$ D. $a + b$
18	1st four terms of the expansion $(1-x)^{-2}$ are	A. $1 + 2x + 3x^2 + 4x^3$ B. $3x^2 + 2x + 1$ C. $1 + 3x + 4x^2 + 5x^3$ D. None of these
19	$f(x) = x$ is	A. trigonometric function B. exponential function C. quadratic function D. linear function

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The area enclosed between the graph  $y = x^2 - 4x$  and the x- axis is:

- A.  $20/3$
- B.  $41/3$
- C.  $32/3$
- D.  $25/3$