

## Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Six boys and 3 girls are to be seated at random, in a row, for a photograph. The probability that no two girls will sit together is	A. 1/12 B. 1/6 C. 5/12 D. 7/12
2	$f(x) = ax + b$ will be a constant function if	A. $a = 1, b = 1$ B. $a = 1, b = 0$
3	Question Image	
4	Question Image	
5	Which of the following is a quadrantal angle	A. $30^\circ$ B. $45^\circ$ C. $60^\circ$ D. $90^\circ$
6	$f(x) =  x $ is a/an	A. Injective function B. Bijective function C. Surjective function D. Implicit function
7	$\forall x \in (a,b), f(x)$ is increasing if	A. $f'(x) \geq 0$ B. $f'(x) \leq 0$ C. $f''(x) \geq 0$ D. $f''(x) = 0$
8	Question Image	
9	Question Image	
10	There are _____ basic techniques for solving a quadratic equation	A. Two B. Three C. Four D. None of these
11	Question Image	
12	The period of $ \sin 2x $ is	A. $\pi/2$ B. $-\pi/2$ C. $\pi$ D. $\pi/3$
13	Question Image	A. $3x^2 + 2$ B. $3x^2 + 2x + 3$ C. $x^3 + x^2$ D. none of these
14	If $\#n = (n-5)^2 + 5$ , then find $\#3 \times \#4$ .	A. 54 B. 12 C. 4 D. 9
15	Question Image	
16	Question Image	
17	$3j \cdot k \times i$	A. 0 B. 1 C. 3 D. 9
18	Question Image	
19	Question Image	
20	Question Image	A. 0 B. U C. $u/2$ D. $\log u$