

## Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Matrices $A = [a_{ij}] 2 \times 3$ and $B = [b_{ij}] 3 \times 2$ are suitable for	A. BA B. A2 C. AB D. B2
2	Question Image	
3	Question Image	A. $\sin x + c$ B. $-\sin x + c$ C. $\cos x + c$ D. $-\cos x + c$
4	The set of the first elements of the orders pairs forming a relation is called its	A. Relation in B B. Range C. Domain D. Relation In A
5	$\sin(a-90^\circ) = \underline{\hspace{1cm}}$ ;	A. $\sin a$ B. $\cos a$ C. $-\sin \theta$ D. $-\cos a$
6	The probability that a slip of numbers divisible by 4 is picked from the slips of number 1,2,3,4,.....10 is	A. $\frac{1}{5}$ B. $\frac{2}{5}$ C. $\frac{1}{10}$ D. $\frac{3}{10}$
7	The proposition $S(n)$ is true $\forall n \in \mathbb{N}, S(k+1)$ true when _____ is true	A. $S(1)$ B. Both a & c C. $S(k)$ D. None
8	Question Image	A. 2, 3 B. 3, 3 C. 2, 6 D. 2, 4
9	Question Image	A. $45^\circ$ B. $30^\circ$ C. $75^\circ$ D. $60^\circ$
10	Question Image	
11	$w^1 = \underline{\hspace{1cm}}$	A. 0 B. 1 C. w D. $w^{\sup{2}}$
12	Question Image	
13	For which of the following ordered pairs (s, t) is $s + t > 2$ and $s - t < -3$ ?	A. (3, 2) B. (2, 3) C. (1, 8) D. (0, 3)
14	The solution of differential equation:	A. $\frac{dy}{dx} + \frac{y}{x} = x^{\sup{2}}$ is : B. $4xy = x^{\sup{4}} + c$ C. $4x = x^{\sup{4}} + c$ D. $4y = x^{\sup{4}} + c$ E. $4x = 4x^{\sup{3}} + c$
15	Question Image	
16	Question Image	
17	Question Image	
18	2.333....is a	A. Irrational no B. Complex no C. Rational no D. None of these
19	Question Image	

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Question Image

- A.  $y : x$
- B.  $x : y$
- C.  $-y : x$
- D.  $-x : y$