

## Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	If the matrices A and B are conformable for multiplication then $(AB)^t =$ _____	A. AB B. $A^t B^t$ C. $B^t A^t$ D. $A^t B$
2	Question Image	A. -1 B. 0 C. 1 D. undefined
3	Domain of $3 \sin x$ is _____	A. [-3, 3] B. $\mathbb{R}$ C. Positive real numbers D. None of these
4	Intersection of two parabolas	A. parabola B. Two points C. Four points D. Hyperbola
5	Question Image	
6	Question Image	
7	The nth term of a G.P. is	A. $a^{n-1} r^n$ B. $a^{n-1} r^{n+1}$ C. $a^{n-1} r^{n-1}$ D. $a^{n-1} r^{-n}$
8	If line through (4,3) and (2,k) is perpendicular to $y = 2x + 3$ , then $k =$ _____	A. -1 B. 1 C. -4 D. 4
9	Question Image	A. $\cot x + c$ B. $\tan x + c$ C. $-\cot x + c$ D. $-\tan x + c$
10	If $x^4 - 10x^2 - 2x + 4$ is divided by $x + 3$ , then the remainder is	A. 1 B. 0 C. 4 D. None of these
11	Question Image	A. 12 B. 6 C. 8 D. none of these
12	If $n \in \mathbb{Z}^+$ then $(a+x)^n$ is $a^n$	A. Finite series B. Convergent series C. Infinite series D. Divergent series
13	Question Image	
14	Question Image	
15	The probability to get an odd number in a dice thrown once is	A. 6 B. 1 C. $1/6$ D. $1/2$
16	If the cone is cut by a plane perpendicular to the axis of the cone, then the section is a:	A. Circle B. ellipse C. hyperbola D. parabola
17	$x = \sin^{-1} 3$ , then the value of $\sin x$ is	A. $\sqrt{3/2}$ B. 3 C. Not possible D. -1
		A. 0 B. -

18  $x = \underline{\hspace{2cm}}$  is in the solution of  $2x + 3 < 0$

- B. 2
- C. -1
- D. -2

19 The equation of vertical asymptotes of  $y = \cos ecx$  is

- A.  $x = 0$
- B.  $y = 0$
- C.  $x = \infty$
- D.  $y = \infty$

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