

## Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image	
2	What is the period of $\tan \frac{4}{3} x = ?$	A. $\pi/4$ B. $4\pi/3$ C. $7\pi/4$ D. $3\pi/4$
3	Question Image	
4	The point P (5,8) and the origin lie on the side of the line $3x + 7y + 15 = 0$	A. Same side B. P above and origin below C. Opposite side D. P below and origin above
5	Question Image	
6	$9 \cdot 8 \cdot 7 \cdot 6 = \underline{\hspace{2cm}}$	
7	The zero vector is regarded to be parallel to	A. Every vector B. Is some cases C. Both a,b D. None
8	Question Image	
9	Question Image	
10	The differential equation representing the family of curves $y = A \cos (x + B)$ , where A, B are parameters, is	
11	Question Image	A. 2 B. $-3/2$ C. 1 D. 0
12	The expansion of $(1 - 3x)^{-1}$ is valid if	A. $ x  < 1$ B. $ x  < 3$ C. $ x  < 1/3$ D. None of these
13	The sum of an indicated number of terms in a sequence is called	A. sequence B. progression C. Series D. Mean
14	A function F(x) is called even if	A. $F(x) = F(-x)$ B. $F(x) = F(-x)$ C. $F(x) = -F(x)$ D. $2F(x) = 0$
15	The set of the first elements of the ordered pairs forming a relation is called its	A. Function on B B. Range C. Domain D. A into B
16	The line $2x + \sqrt{6}y = 2$ is a tangent to the curve $x^2 - 2y^2 = 4$ The point of contact is	A. $(\sqrt{6}, 1)$ B. (2,3) C. $(7, -2\sqrt{6})$ D. $(4, -\sqrt{6})$
17	Question Image	
18	$\forall a, b, c \in \mathbb{R}, a + c = b + c \Rightarrow a = b$	A. Reflexive property B. Symmetric property C. Cancellations property w.r.t. addition D. Transitive property
19	If $a = [1, 4, 3]$ and $B = [2, -1, 5]$ then the mid point M of AB is:	A. [1, 1, 1.5] B. [2, 2, 1.5] C. [1.5, 1.5, 4] D. None of these

- A. 6th term
  - B. 6th or 7th
  - C. 7th term
  - D. 6th and 7th
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