

## Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Range of $\tan x$ is _____	A. $[-1, -]$ B. $\mathbb{R}$ C. Negative real numbers D. $\mathbb{R} - \{x \mid -1 \leq x \leq 1\}$
2	If $a$ and $b$ are real numbers then $a+b$ is also real number this law is called	A. associative law of addition B. closure law of addition C. Distributive law of addition D. Commutative law of addition
3	$\forall x, y \in \mathbb{R}$ and $x < 0, y < 0$ , which one is true	A. $xy \leq 0$ B. $xy = 0$ C. $xy \geq 0$ D. None of these
4	Question Image	A. 1 B. 2 C. 3
5	Question Image	A. $x^{39}$ B. $40x^{39}$ C. $40x^{41}$ D. none of these
6	Question Image	A. 1 B. 0 C. 3 D. -3
7	If $\sin(\pi \cos \theta) = \cos(\pi \sin \theta)$ , then which of the following is correct?	
8	The fifth term of the sequence $a_n = 2n + 3$ is _____	A. 13 B. -13 C. 8 D. 3
9	Question Image	
10	The area of the circle centred at $(1, 2)$ and passing through $(4, 6)$ is:	A. $10\pi$ B. $25\pi$ C. $5\pi$ D. $25/2\pi$
11	Question Image	A. Natural numbers B. Whole numbers C. Integers D. Rational numbers
12	Question Image	B. $6x + 2 + c$ C. $6x + x^2 + c$ D. $6x^3 + x^2 + x$
13	$\sin^{-1} x =$ _____	
14	Question Image	D. none of these
15	Question Image	
16	The length of perpendicular from $(3, 1)$ to $4x + 3y + 20 = 0$ is	A. 6 B. 7 C. 3 D. 8
17	Let $A, B$ , and $C$ be any sets such that $A \cup B = A \cup C$ and $A \cap B = A \cap C$ then	A. $A \neq C$ B. $B = C$ C. $A = B$ D. $A \neq B$
18	Question Image	
19	Question Image	A. At B. -A

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C. A  
D. A-1

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Co-ordinate of a point on the parabola  $y^2 = 8x$  whose focal distance is 4 are:

A. (2, 4)  
B. (-2, -4)  
C. (-2, 4)  
D. (2, -4)