

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	The tangents drawn from the point P to a circle are real and distinct if	A. P is on the circle B. P is inside the circle C. P is outside the circle D. none of these
2	Question Image	A. 2 B. 6
3	Question Image	A. 0 B. -1 C. 1 D. not defined
4	Tan 180° = _____	A. -1 B. 0 C. 1 D. Undefined
5	The range of the principal sine function is	
6	Question Image	
7	Question Image	
8	Question Image	
9	Question Image	A. a-b=ab B. ab=a C. a+b=ab
10	The smallest positive root of the equation $\tan x - x = 0$ lies on	
11	If A=B, then	A. $A \subset B$ and $B \subset A$ B. $A \subseteq B$ and $B \not\subseteq A$ C. $A \subseteq B$ and $B \subseteq A$ D. None of these
12	Question Image	
13	$\forall a, b, c \in \mathbb{R}, a > b \wedge b > c \Rightarrow a > c$ is	A. Trichotomy property B. Transitive property C. Symmetric property D. Additive property
14	Multiplicative inverse of "1" is	A. +- 1 B. 0 C. 1 D. None of these
15	$w^{29} =$ _____	A. 0 B. 1 C. w D. $w^{<sup>2</sup>}$
16	The roots of $ax^2+bx+c=0$ are	A. Rational $\Leftrightarrow b^2 - 4ac \geq 0$ B. Irrational $\Leftrightarrow b^2 - 4ac > 0$ C. Real $\Leftrightarrow b^2 - 4ac \neq 0$ D. Rational $\Leftrightarrow b^2 - 4ac = 0$
17	Question Image	
18	Fifteen girls compete in a race. The first three places can be taken by them in	A. 3! ways B. 12! ways C. $15 \times 14 \times 13$ ways D. 42 ways
19	If for two events A and B, $P(A \cup B) = 1$, then events A and B are	A. Certain events B. Mutually exclusive C. Complementary events D. Independent
20	Question Image	D. none of these

