

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image	
2	Question Image	
3	A matrix with a single row is called a	A. Column matrix B. Row matrix C. Null matrix D. Identity matrix
4	The third term of a G.P. is the square of first term. If the second term is 8, then the 6th term is	A. 120 B. 124 C. 128 D. 132
5	Question Image	A. $2x + 3$ B. $x^{2+3} + 3 + c$
6	The 60th part of one minute is called	A. Degree B. Second C. Radian D. None of these
7	Question Image	
8	The middle term(s) of $(a+x)^{11}$ is	A. 6th term B. 6th or 7th C. 7th term D. 6th and 7th
9	Question Image	A. 11 B. 61 D. 1
10	If $\cos 20^\circ = K$ and $\cos x = 2K^2 - 1$, then the possible values of x between 0° and 360° are	A. 140° B. 50° and 140° C. 50° and 130° D. 40° and 320°
11	If $A \subseteq B$ then $A \cup B$ is	A. A B. B C. A' D. $A \cap B$
12	Two circles $s_1: x^2 + y^2 + 2x - 2y - 7 = 0$; $s_2: x^2 + y^2 - 6x + 4y + 9 = 0$	A. Touch externally B. Touch internally C. Intersects each other D. Do not intersect
13	$\sqrt{25}$ is a number	A. Rational B. Irrational C. Natural D. Odd
14	The sum of complex number (a,b) and (c,d) is	
15	The transpose of a zero matrix is a _____	A. Column matrix B. Zero matrix C. Row matrix D. Scalar matrix
16	At a point 15 meters away from the base of a 15 meters high house, the angle of elevation of the top is	A. 90° B. 60° C. 30° D. 45°
17	The identity element of a set X with respect to intersection in $P(X)$ is	A. X B. Does not exist C. \emptyset D. None of these
18	The process of finding a function whose derivative is given is called a	A. Differentiation B. Integration C. Differential D. None

19 $2/9, 5/7 \in \mathbb{R}, (2 \mid 9)(5 \mid 7) = 10/63 \in \mathbb{R}$ this property is called

- A. Associative property
- B. Identity property
- C. Commutative property
- D. Closure property w.r.t multiplication

20 $i^{101} =$

- A. i
- B. $i^{\sup>2</sup>}$
- C. $-i$
- D. -1