

Mathematics General Science Test Hard Mode

Sr	Questions	Answers Choice
1	Two natural numbers whose sum is 25 and difference is 5, are	A. 25, 20 B. 20, 10 C. 20, 5 D. 15, 10
2	If P(E) is the probability that an event will occur, then P(E) =	A. 1 B. 0.5 C. 2 D. 0
3	$a + x$ is	A. A trinomial B. A binomial C. A monomial D. An equation
4	Question Image <input type="text"/>	A. Free vector B. Null vector C. Unit vector D. None of these
5	Question Image <input type="text"/>	
6	Question Image <input type="text"/>	
7	If the sum of the roots of the equation $ax^2 - 2x + 2a = 0$ is equal to their product, then the value of a is	A. 1 B. 2 C. 3 D. 4
8	Question Image <input type="text"/>	
9	A relation in which the equality is true only for some values of the unknown variable is called	A. An identity B. An equation C. A polynomial D. Inverse function
10	Question Image <input type="text"/>	
11	$\cos 315^\circ =$	A. 0.707 B. 0.5 C. 1 D. 0
12	0 (Zero) is	A. An irrational number B. A rational number C. A negative integer D. A positive number
13	The multiplicative inverse of x such that $x \neq 0$ is	A. -x B. does not exist C. $1/x$ D. 0
14	If the angles of a triangle are in the ratio 2:3:7, the triangle is	A. Obtuse B. Acute C. Right angle D. Isosceles
15	What is the period of $\cot x$?	
16	The length of a rectangle is twice as much as its breadth. If the perimeter is 120 cm, the length of the rectangle is	A. 10 cm B. 20 cm C. 30 cm D. 40 cm
17	The center of a circle of radius 10 is on the origin. Which of the following points lies within the circle	A. (10, 0) B. (8, 8) C. (8, 4) D. (0, 10)
18	The values of n such that, in the binomial expansion of $(1 - x)^n$, the coefficient of x^2 is 3, are	A. -2, -3 B. 2, -3 C. -2, 3 D. ...

D. None of these

19 The value of the polynomial $3x^3 + 4x^2 - 5x + 4$ at $x = -1$ is

- A. 12
- B. 1
- C. 10
- D. -10

20 

- A. 1
- B. 2
- C. 3
- D. 4