

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	The position vector of a point (x, y) in xy plane is	D. none of these
2		A. 0 B. 1 D. -1
3	O is _____	A. A positive integer B. A negative integer C. A natural number D. An integer
4	Period of $\cot x$ is _____	
5		A. 0 B. U C. $u/2$ D. $\log u$
6	The distance between the points (2, 2) and (3, 3) is	A. 10 C. 5 D. 2
7	A box contains 10 red 30 white and 20 black marbles When a marble is drawn at random the probability that it is either red or white is	A. $1/6$ B. $1/3$ C. $1/2$ D. $2/3$
8	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. $A \neq B$
9	The slope of the normal at the point $(at^2, 2at)$ of the parabola $y^2 = 4ax$ is	A. $1/t$ B. t C. $-t$ D. $-1/t$
10	The locus of the point of intersection of tangents to an ellipse at two points, sum of whose eccentric angles is constant is	A. A parabola B. A circle C. An ellipse D. A st. line
11		
12	How many necklaces can be made from 6 beads of different colours?	A. 120 B. 60 C. 24 D. 15
13		
14		A. Lies between 4 and 7 B. Lies between 5 and 9 C. Has no value between 4 and 7 D. Has no value between 5 and 9
15		A. Reciprocal equation B. Exponential equation C. Radical equation D. None of these
16		
17	If $3x^4 + 4x^3 + x - 5$ is divided by $x + 1$, then the remainder is	A. 0 B. 7 C. -7 D. 5
18	The set $\{Z \setminus \{0\}\}$ is group w.r.t	A. Addition B. Multiplication C. Division D. Subtraction
		A. (3, 1, -2)

19

Question Image

- B. (3, -2, 1)
- C. (2, -1, 3)
- D. (-1, -2, -3)

20

Question Image

- A. 1
- B. 2
- C. $\frac{3}{2}$
- D. $\frac{5}{2}$