

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	A card is drawn from a pack of cards numbered 1 to 52, the probability that the number on the card is a perfect square is	A. 1/13 B. 2/13 C. 7/52 D. None of these
2	If the sum of even coefficients in the expansion of $(1+x)^n$ is 128 then	A. $n=7$ B. $n=9$ C. $n=8$ D. None
3	If S_n is a definite number as $n \rightarrow \infty$, then the geometric series is	A. Convergent B. Divergent C. Oscillatory D. None of these
4	For an A.P common difference d	A. Can be zero B. May or may not zero C. Cannot be zero D. None of these
5	The multiplicative inverse of x such that $x \neq 0$ is	A. $-x$ B. Does not exist C. $1/x$ D. ± 1
6	The sixth term of the sequence 1,3,12,60....is	A. 1500 B. 72 C. 2160 D. 2520
7	Question Image	
8	Question Image	
9	Only one of the root of $ax^2 + bx + c = 0$, $a \neq 0$ is zero if	A. $c = 0$ B. $c = 0, b \neq 0$ C. $b = 0, c = 0$ D. $b = 0, c \neq 0$
10	Question Image	
11	If the distance of any point on the curve from any of the two lines approaches zero then it is called	A. Axis B. Directrices C. Asymptotes D. None
12	A square is inscribed in the circle $x^2 + y^2 - 2x + 4y + 3 = 0$. Its sides are parallel to the co-ordinate axes. Then one vertex of the square is	
13	If a, b, c are sides of a triangle taken in order then $a \times b =$	A. $b \times c$ B. $b \times a$ C. $c \times a$ D. Both a & b
14	If $n \in \mathbb{Z}^+$ then $(a+x)^n$ is a^n	A. Finite series B. Convergent series C. Infinite series D. Divergent series
15	Question Image	
16	The set of the first elements of the ordered pairs forming a relation is called its	A. Relation in B B. Range C. Domain D. Relation in A
17	The length of the tangent from $(2, 1)$ to the circle $x^2 + y^2 + 4y + 3 = 0$ is	
18	Question Image	
19	Question Image	
20	Question Image	

