

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	For a positive integer n	A. $n! = n(n + 1)$ B. $n! = n(n+1)!$ C. $n! = n(n - 1)$ D. $n! = n(n - 1)!$
2	Question Image	
3	A second degree equation in which coefficients of x^2 and y^2 are equal and there is no product term xy represents:	A. a parabola B. a circle C. an ellipse D. a pair of lines
4	The number of proper subset of $A = \{a, b, c, d\}$ is	A. 3 B. 6 C. 8 D. 15
5	Question Image	A. 2 C. -2 D. none of these
6	The set of all positive even integers is	A. Not a group B. A group w.r.t subtraction C. A group w.r.t division D. A group w.r.t multiplication
7	Question Image	
8	$7^{2n} + 3^{n-1} \cdot 2^{3n-3}$ is divisible by	A. 24 B. 25 C. 9 D. 13
9	The direction cosines of y-axis are	A. 1, 0, 0 B. 0, 1, 0 C. 0, 0, 1 D. 1, 1, 1
10	Write down the power set of $\{9, 11\}$	
11	$4/\sqrt{49}$ is a	A. Irrational Number B. Prime Number C. Rational number D. Whole number
12	Question Image	A. 0 B. 3 C. 9 D. -3
13	If a polynomial $P(x)$ is divided by $x - a$, then the remainder is	A. $P(0)$ B. $P(-a)$ C. $P(a)$ D. None of these
14	The coefficient of the third term of $(8a-b)^{1/3}$, after simplification is	A. -228 B. $1/288$ C. $1/220$ D. $-1/177$
15	Question Image	A. $b = c$ B. $a = c$ C. $a = c$ D. $b = 0$
16	Question Image	A. $x a^{^{x-1}}$ B. $a^{^x}$ C. x in a D. $a^{^x}$ in a
17	Every identity matrix is	A. Row-vector B. Scalar C. Column-vector D. All

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Question Image

- A. 1
- B. 0
- C. 5
- D. 2

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If $(2, 3)$ is the mid point of $(a, 3)$ and $(5, b)$ then

- A. $a = 1, b = -3$
- B. $a = -1, b = 3$
- C. $a = 1, b = 3$
- D. $a = -1, b = -3$

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Question Image

- A. 0
- B. 1
- C. -2
- D. 10