

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Domain of $\tan x$ is _____	
2	$n(n-1)(2n-1)$, for all natural numbers n , is divisible by	A. 12 B. 6 C. 2 D. 18
3	Which of the following integrals can be evaluated	
4	Question Image	
5	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
6	For each real number, there is a number which is its	A. Negative B. Positive C. Opposite D. Similar
7	Question Image	
8	Let A be a square matrix. Then, $1/2 (A-A')$ is	A. Skew-symmetric B. Symmetric C. Null D. None of the above
9	$ax^2 + 2hxy + by^2 + 2gx + 2fy + c = 0$ may represent an ellipse if	A. $h^2 - ab < 0$ B. $h^2 - ab \neq 0$ C. $h^2 - ab = 0$ D. $h^2 - ab > 0$
10	The equation of the directrix of the parabola $x^2 = 4ay$ is	A. $x + a = 0$ B. $x - a = 0$ C. $y + a = 0$ D. $y - a = 0$
11	The probability to get an odd number in a dice thrown once is	A. $1/2$ B. $1/6$ C. $1/3$ D. 2
12	The coefficient of x^{18} in $(ax^4 - bx)^9$ after expansion is	A. $84a^3 b^6$ B. $22a^3 b^6$ C. $27a^4 b^5$ D. $28a^3 b^6$
13	$\forall x, y \in R$, either $x = y$ or $x > y$ or $x < y$ is	A. Transitive property B. Reflexive property C. Trichotomy property D. None of these
14	Question Image	
15	The distance of a moving particle at any instant t is $x = 3t^2 + 1$ then velocity of particle at $t = 10$ is	A. 50 cm/sec B. 60 cm/sec C. 61 cm/sec D. None of these
16	$(n + 2)(n + 1)n =$ _____	
17	$(x + a)(x + b)(x + c)(x + d) = k$, $k \neq 0$ is reducible to quadratic form only if	A. $a+b=c+d$ B. $a+c=b+d$ C. $a+d=b+c$ D. All are correct
18	Question Image	
19	$x =$ _____ is in the solution of $2x + 3 \geq 0$	A. 1 B. -2 C. -3 D. -4

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Question Image

- A. 1
- B. $|A|$
- C. $|A|$
- D. None of these