

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Digit in the unit place of the number $183! + 3^{183}$	A. 7 B. 6 C. 3 D. 0
2	Domain of $3 \sin x$ is _____	A. [-3, 3] B. R C. Positive real numbers D. None of these
3	If one root of the equation $x^2 - 3x + a = 0$ is 2 then $a =$ _____	A. 0 B. 1 C. 2 D. 3
4	The function $f(x) = x $ is a/an _____ function	A. Even B. Odd C. Both even as well as odd D. Neither even nor odd
5	$8 \cdot 7 \cdot 6 \cdot 5$ in factorial form is	
6	If a is any real number and $a = a$ is called	A. symmetric property B. Trichotomy Properties C. Transitive Property D. Reflexive Properties
7	If $n \in \mathbb{Z}^+$ then $(a+x)^n$ is a/an	A. Finite series B. Convergent series C. Infinite series D. Divergent series
8	A polynomial of arbitrary degree	A. $f(x) = 0$ B. $f(x) = x$ C. $f(x) = a$ D. $f(x) = ax + b, a \neq 0$
9	A triangle has _____ elements	A. 3 B. 4 C. 5 D. 6
10	If a, b, c are three non-coplanar vector then $[a + b, b + c, c + a] =$ _____	A. $[a, b, c]$ B. $2[a, b, c]$ C. $[abc] \cdot 2$ D. $2[abc]^2$
11	If n is a negative integer $n!$ is	A. 1 B. 0 C. Unique D. Not defined
12	The unit vector along x-axis is	D. none of these
13		
14		A. 15/23 B. 7/15 C. 7/8 D. 15/7
15		A. -x B. Infinite set C. $\{-4, 4\}$ D. None of these
16	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. $y - a = 0$
17	A disjunction of two statement p and q is true	A. p is false B. q is false C. Both p and q are false

18	Question Image	
19	Area of inscribed circle is	A. πR^2 B. πr^2 C. πr^2 D. πr^2
20	If $x^2 + px + 1$ is a factor of $ax^3 + bx + c$, then	A. $a^2 + c^2 = -ab$ B. $a^2 - c^2 = -ab$ C. $a^2 - c^2 = ab$ D. None of these