Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Which symbolic notation represent unary operation ?	A. - B. $\vee$ C. $\wedge$ D. $\Leftrightarrow$
2	The sets {1, 2, 4} and {4, 6, 8, 10} are	A. Equal sets B. Equivalent sets C. Disjoint sets D. Over lapping sets
3	The number of solution of the equation tan x + sec x = 2 cos x lying in the interval [0, 2π] is	A. 0 B. 1 C. 2 D. 3
4	The degree of differential equation is the power of the	A. Lowest order derivative B. Highest order derivative C. Integral D. All are correct
5	If $f(x) = x^2 - x$ then f(-2) is	A. 4 B. 6 C. 2 D. 0
6	Question Image	A. 0 B. 1 C. 13
7	$\forall a, b \, \varepsilon \, R$, ab = be is a	A. Commutative law of multiplication B. Closure law of multiplication C. Associative law of multiplication D. Multiplicative identity
8	Question Image	
9	The period of cosec 10x is _____	
10	Let $P(x_1, y_1)$ and $Q(x_2, y_2)$ be two points in the co-ordinate plane. Let d = distance between P and Q	
11	The solution of the equation $\cos^2\theta + \sin\theta + 1 = 0$ lies in the interval	
12	Question Image	
13	If the cutting plane is slightly tilted and cuts only one nappe of the cone, the resulting section is:	A. an ellipse B. Circle C. a hyperbola D. a parabola
14	Question Image	
15	if $f(x) = x^3 - 3x^2 + 5x - 1$, then $f(-\sqrt{2})=$	A. $7+7\sqrt{2}$ B. $3+3\sqrt{2}$ C. $-7-7\sqrt{2}$ D. $-3-3\sqrt{2}$
16	Question Image	A. A B. A' C. U D. None of these
17	If $\cos^{-1}p + \cos^{-1}q + \cos^{-1}r = \pi$ then $p^2 + q^2 + r^2 + 2pqr$ is equal to	A. 3 B. 1 C. 2 D. -1
18	Question Image	A. An ellipse B. A parabola C. A circle D. A hyperbola
19	Question Image	

20 | Question Image

A. square root function
B. identity function
C. linear function
D. quadratic function