Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image	
2	For any real numbers x,y,xy=o ⇒	A. $x \neq 0 \wedge y \neq 0$ B. x = 0 ∨ y = 0 C. x = 0 D. y = 0
3	If a plane passes through the vertex of a cone then the intersection is	A. an ellipse B. a hyperbola C. a point circle D. a parabola
4	In a school there are 150 students Out of these 80 students enrolled for mathematics class.50 enrolled for English class and 60 enrolled for Physics class The student enrolled for English cannot attend any other class but the students of mathematics and Physics can take two courses at a time find the number of students who have taken both physics and mathematics.	A. 40 B. 30 C. 50 D. 60
5	The order axioms are satisfied by set of	A. C B. C and R C. R D. None of these
6	A monoid (G, *) is said to be group if	A. have identity element B. is commutative C. have inverse of each element D. None of these
7	Name the property used in 4 x (5 x 8) = (4 x 5) x 8	A. Associative property of addition B. Associative property of multiplication C. Additive identity D. Multiplicative identity
8	Question Image	B. ln(x²- x + 1) + c D. ln(2x - 1) + c
9	Question Image	A. [0, 0, 0] B. [1, 0, 0] C. [0, 1, 0] D. [0, 0, 1]
10	The differential equation representing the family of curves y = A cos (x + B), where A, B are parameters, is	
11	The equation of vertical asymptotes of y = cos ecx is	A. x = 0 B. y = 0 C. x =∞ D. y =∞
12	Question Image	
13	(ABC)' =	A. CBA' B. CBA C. C' B' A' D. None of these
14	The number of permutations of n objects of which there are $n_1$like of one kind, $n_2$like of the second kind and $n_3$like objects of third kind are	
15	A relation in which the equality is true only for some values of the unknown is called	A. An identity B. An equation C. A polynomial D. None
16	Apollonius was a:	A. Rocket B. Muslims scientist C. Greek mathematicians D. Method of finding conics
17	Question Image	A. Less then 1 B. Equal to 1 C. Greater than 1 but less then 2 D. Greater then or equal to 2

18	Associative law of multiplication	A. ab = ba B. a(bc) = (ab) c C. a(b+c) = ab + ac D. (a + b)c = ac + bc
19	w^{29}= _____	A. 0 B. 1 C. w D. w²
20	Question Image	A. I quadrant B. II quadrant C. III quadrant D. IV quadrant