Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	The graph of linear equation $2x + 3y = 10$	A. Parabola B. Circle C. Hyperbola D. Straight line
2	For any set B, BUB' is	A. Is set B B. Set B' C. Universal set D. None of these
3	If a particle moves according to the law $s = t^3 - t^2$, then its velocity at time $t = 1.5$ is	A. 9/2 B. 15/4 C. 5 D. None
4	If the roots of $ax^2 + bx + c = 0$ $(a > 0)$ be greater than unity, then	A. $a + b + c = 0$ B. $a + b + c > 0$ C. $a + b + c < 0$ D. None of these
5	$(ABC)' =$	A. CBA' B. CBA C. C'B'A D. C'B'A'
6	Question Image	B. $a^x \ln a + c$ C. $a^x + c$ D. $x a^x + c$
7	The number z so that the triangle with vertices A(1,-1,0),B(-2,2,1)and C(0,2,z) is a right triangle with right angle at vertex C	A. 1,2 B. -1,-2 C. 2,-1 D. -2,1
8	Question Image	
9	The coefficient of the second term of $(a+b)^4$ is	A. 1 B. 9 C. 3 D. 5
10	Question Image	A. $-\cot 4x + c$ B. $\cot 4x + c$ C. $\tan 4x + c$ D. $-\tan 4x + c$
11	If a,b c are sides of a triangle taken in order then a x b =	A. b x c B. b x a C. cxa D. Both a & b
12	Question Image	
13	Eight chairs are numbered 1 to 8. Two women and three men wish to occupy one chair each. First, the women choose the chairs from amongst the chairs marked 1 to 4 and then the men select the chairs from amongst the remaining. The number of possible arrangement is	A. $^6C_3 x ^4C_2$ B. $^4C_2 x ^4P_3$ C. $^4P_2 x ^6P_3$ D. None of these
14	Question Image	A. 0 B. -2 C. 1 D. 4
15	An equation which holds good for all values of variables is called	A. Equation B. Conditional equation C. Constant D. None
16	Z is a group under	A. Subtraction B. Multiplication C. Addition D. None of these

17	Which of the following is factor of p(x) =2x3 +3x2+3x+2 ?	A. x+1 B. 2x+1 C. 3x+1 D. 2x-1
18	The set of points {(x,y)|y = f(x), ∀x∈} is called	A. Relation B. Graph of f C. Function D. All are correct
19	A = B iff	A. All elements of A also the elements of B B. A and B should be singleton C. A and B have the same number of elements D. If both have the same element
20	6 is	A. A prime integar B. An irrational number C. A rational number D. An odd integer