Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	The extraction of cube root of a given number is a	A. Unary Operation B. Binary Operation C. Relation D. None of these
2	Question Image	
3	The roots of the equations will be equal if b^2- 4ac is	A. Positive B. Negative C. 1 D. Zero
4	Question Image	A. Rule of quotient of fraction B. Golden rule of fraction C. Rule for product of fraction D. Principle for equality of fraction
5	Question Image	
6	Question Image	A. 405 / 256 B. 504 / 259 C. 450 / 263 D. None
7	Corner point of the system x - y≤ 2,x + y≤ 4,2x -y≤ 6,x≥ 0,y≥ 0	A. (1,4) B. (4,2) C. (3,1) D. (4,1)
8	Question Image	A. Improper rational fraction B. Rational fraction C. Proper rational fraction D. None of above
9	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]-2 D. 2[abc]2
10	Question Image	A. cos 2x + c B. - cos 2x + c C. tan 2x + c D. cot 2x + c
11	The function discontinuous at x = 0 is (1) tan x (II) cot x (III) sec x (iv)cosec x)	A. I & III B. I & IV C. II & IV D. II & III
12	There are n seats round a table numbered 1, 2, 3 .... n. The number of ways in which m person can take seats is	A. ⁿP_m B. ⁿC_mx (m - 1) ! C. ⁿ⁻¹P_m D. None of these
13	Question Image	A. (a + b)c = a . c + bc B. a + b = b + a C. (a + b) + c = a + (b + c) D. a(b+ c) = ab + ac
14	Question Image	D. none of these
15	In a class of 100 students, 60 drink tea, 50 drink coffee and 30 drink both. A student from his class is selected at takes at last one of 2 drinks is	A. 2 / 5 B. 3 / 5 C. 4 / 5 D. None of these
16	The interval in which f(x)=x3-6x2+9x is increasing	A. 1<x<3 B. x<1 and x>3 C. X ≥1 and x ≤ 3 D. -∞ < x < ∞
17	Question Image	A. 0 B. 1 C. 2

		C. 2 D. None of these
18	Question Image	A. 1.5 B. 1.2 C. 8 D. None of these
19	Question Image	A. 0 B. 1
20	The radius of the circle $2x^2 + 2y^2 - 4x + 12y + 11 = 0$ is:	A. $\sqrt{4.5}$ B. $\sqrt{11}$ C. $\sqrt{29}$ D. $\sqrt{15}$