Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image	B. $\ln(x^2 - x + 1)^4 + c$
2	Number of permutations of n distinct objects taken r(<n - 3) at a time which exclude 3(<n) particular objects is	A. 3! P(n, r - 3) B. P(n, 3) P(n, r - 3) C. P(r, r)P(n, r - 3) D. P(n - 3, r)
3	Question Image	
4	An integer is chosen at random from the number ranging from 1 to 50. the probability that the integer chosen is a multiple of 2 or 3 or 10 is	A. 3 / 10 B. 5 / 10 C. 7 / 10 D. 9 / 10
5	The latus rectum of the ellipse $5x^2 + 9y^2 = 45$ is	A. 10 / 3 B. 5 / 3 C. 3 / 5 D. 3 / 10
6	Question Image	
7	If n is a positive integer then n! is	A. (n - 1) (n - 2) .....3,.2.1 B. n(n - 1) (n - 2) ...3.2.1 C. n(n - 1) (n -2) ... 3 D. None of these
8	Question Image	
9	Question Image	A. $X = 100 \sin\theta$ B. $X = 10 \sin\theta$ C. $X = 100 \sec\theta$ D. None of these
10	The condition for polynomial equation $ax^2 + bx + c = 0$ to be quadratic is	
11	Question Image	A. Hermitian matrix B. Skew-hermitian matrix C. Symmetric matrix D. Identity matrix
12	(x-1) is a factor of	A. $2x^3 - 3x^2 + 9$ B. $2x^3 - 5x - 8$ C. $48x^2 - 46x - 9$ D. $x^9 - 1$
13	The no of term is the expansion of (a+x)n-1 is	A. n+1 B. n-1 C. n D. n-2
14	A quadratic equation in x is an equation that can be witten in the form	A. $ax^2 + b = 0$ B. $ax^3 + b^2 + c = 0$ C. $ax^2 + bx + c = 0$ D. $ax^3 + bx^3 + cx = 0$
15	Question Image	

16	The distance of the point (2,3) from x-axis is	A. 2 B. 3 C. 5
17	Question Image	A. A rational number B. An irrational number C. An odd number D. A prime number
18	If the exponent in the binomial expansion is 6, then the middle term is	A. 2nd B. 3rd C. 4th D. 5th
19	The 8th term of $(1+2x)^{-1/2}$ is	A. $-221/16\ x^7$ B. $-225/18\ x^7$ C. $-407/9\ x^3$ D. $-429/16\ x^7$
20	Question Image	A. l3 B. rl3 C. r D. none