Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	The set of natural numbers is a subset of	A. {1, 2, 3, ... 100} B. The set of whole numbers C. {2, 4, 6, 8, ...} D. None of these
2	The roots of (x - a)(x - b) = ab x2 are always	A. Real B. Depends upon a C. Depends upon b D. Depends upon a and b
3	A point of a solution regions where two of its boundary lines intersect, is called:	A. Vertex of the solution B. Feasible point C. Point of inequality D. Null point of the solution region
4	1^0= _____	A. 360' B. 60" C. 60' D. 3600'
5	If z = (x,y) , then $\bar{z}$ =	A. (-x,y) B. (x,-y) C. (-x, -y) D. None of these
6	Question Image	A. 6x - 2 + c B. x³- x²+ x + c C. 6x - x²+ c D. 6x³- x²+ c
7	Roots of the equation x^2- x = 2 are	A. {2, -1} B. {1, 0} C. {2, 1} D. {-2, 1}
8	Question Image	
9	The solution of the quadratic equation x2 -7x + 10=0, is	A. 2 B. 5 C. 2,5 D. 7
10	A die is thrown 100 times. If getting an odd number is considered a success, the variance of the number of successes is	A. 50 B. 25 C. 10 D. 100
11	The condition for polynomial equation ax2 + bx + c = 0 to be quadratic is	A. a > 0 B. a < 0 C. a≠ 0 D. a≠ 0,b ≠ 0
12	One second is denoted by	A. 1⁰ B. 1' C. 1" D. 1 rad
13	If the intersecting plane is parallel to a generator of the cone, but intersects its one nappe only, the curve obtained is	A. an ellipse B. a hyperbola C. a circle D. a parabola
14	If f(x) = x^3- $2x^2$+ 4x -1, then f(-2) = ?	A. 0 B. -25 C. 5 D. 45
15	The point of concurrency of the medians of the ΔABC is called its	A. Orthocenter B. Centriod C. Circumcentre D. Incentre

16	The exact value of $\cos^{-1}(-1) + \cos^{-1}(1) =$	A. π B. -π C. π/2 D. π/3
17	The line 2x +√6y =2 is a tangent to the curve x2 -2y2 =4 The point of contact is	A. (√6,1) B. (2,3) C. (7,-2√6) D. (4,-√6)
18	The value of i^{4n+1}	A. 1 B. -1 C. i D. i²
19	Question Image	
20	The equation |x +4| = x has solution	A. x = -2 B. x = 2 C. x = -4 D. x = 4