Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	¡^{101}=	A. i B. i² C. -i D. -1
2	If a cone is cut by a plane perpendicular to the axis of the cone, then the section is a	A. Parabola B. Circle C. Hyperbola D. Ellipse
3	A point where two of its boundary lines intersect is called	A. Corner point B. Feasible point C. Vertex D. Feasible solution
4	Question Image	A. Square matrix B. Row matrix C. Symmetric matrix D. Null matrix
5	Unit vector in the positive direction of x-axis is	
6	Question Image	
7	If eccentricity of ellipse becomes zero then it takes the form of	A. A parabola B. A circle C. A straight line D. None of these
8	Question Image	A. 0 B. -1-w²
9	If c is a constant number and if f is the function defined by the equation f(x) =c for all values of x, then f is differentiable at every x and f is defined by the equation f(x)	A. f B. 1 C. C D. 0
10	Question Image	
11	Range of cot x is _____	A. [-1, 1] B. R C. Negative real numbers D. R - {x | - 1 < x < 1}
12	The sum if 1,3,5,7,9..... up to 20 terms is	A. 400 B. 472 C. 563 D. 264
13	The three noncollinear points through which a circle passe are known, then we can find the:	A. Variables x and y B. Value of x and c C. three constants f,g and c D. inverse of the circle
14	Question Image	A. 15 B. 15 i C. -15 i D. -15
15	Question Image	A. e^x+ c B. e^{-x}+ c C. x e^x+ c D. not possible
16	Question Image	A. 5 B. 25 D. 3
17	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 students enrolled for English cannot 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. 20

18	How many terms of the A.P 3,6,9,12,15.....must be taken to make the sum 108	A. 8 B. 6 C. 7 D. 36
19	Question Image	A. x³- x²+ x + c B. 6x - 2 + c C. x³- 2x + c
20	Both the roots of the equation (x - b) (x - c) + (x - c)(x - a) + (x - a)(x - b) = 0 are always	A. Positive B. Negative C. Real D. None of these