Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	cos 3a =_____;	A. 3sin a - 4sin3 a B. 4sin a - 3sin3 a C. 3cos3 a - 4cos a D. 4cos3a - 3cos a
2	One minute is denoted by	A. 1⁰ B. 1' C. 1" D. None of these
3	A person standing on the bank of a river observes that the angle subtended by a tree of the opposite bank is 60°, when he retreats 40 m from the bank, he finds the angle to be 30°. The height of the tree and the breadth of the river are	
4	99th term of the series 2 + 7 + 14 + 23 + 34 + ... is	A. 9998 B. 9999 C. 10000 D. None of these
5	The greatest integer which divides the number 101^{100}- 1 is	A. 100 B. 1000 C. 10000 D. 100000
6	The value of i^{4n+1}	A. 1 B. -1 C. i D. i²
7	(n + 2) (n + 1) n= _____	
8	The centre of the conic x2 +16x +4y2 -16y +76 =0 is	A. (0,10) B. (-8,4) C. (-8,-2) D. (1,1)
9	(0,1) is in the solution of the inequality	A. 3x + 2y > 8 B. 2x - 3y < 4 C. 2x + 3y > 5 D. x -2y < -5
10	Question Image	
11	0 (zero) is	A. An irrational number B. A rational number C. A negative integer D. A positive number
12	If a parabola opens down, then its vertex is at the	A. Right of the parabola B. Left of parabola C. Lowest point on the parabola D. Highest point on the parabola
13	The number of x-intercepts of y= sin x in his period	A. 0 B. 1 C. 2 D. 3
14	The 8th term of $(1+2x)^{-1/2}$is	A. -221/16 x⁷ B. -225/18 x⁷ C. -407/9 x³ D. -429/16 x⁷
15	Question Image	A. 0 B. 1 C. 2 D. none of these
16	Question Image	D. none of these
17	The end points of the major axis of the ellipse are called its	A. Foci B. Vertices C. Co - vertices D. None of these

18	If distance of (a,b) from y-axis is 2 then	A. a = 2 B. b = 2 C. a = b D. a = 4
19	In the expansion of $(a + x)^n$ the sum of exponents of a and x in each term of the expansion is	A. n + 1 B. n - 1 C. n D. 2n
20	Question Image	