Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	If n is add the expansion $(a + x)^n$ has middle terms	A. 2 B. 3 C. 4 D. 5
2	$\sqrt{2}$ is a number	A. Rational B. Irrational C. Even D. Odd
3	The set {1,-1, i, -i} form a group under	A. Addition B. Multiplication C. Subtraction D. None
4	Consider the equation $px2 + qx + r = 0$ where p,q,r are real The roots are equal in magnitude but opposite in sign when	A. $q = 0, r = 0, p \neq 0$ B. $p = 0, qr \neq 0$ C. $r = 0, pq \neq 0$ D. $q = 0, pq \neq 0$
5	Which of the following has the same value as i^{113}?	A. i B. -1 C. -i D. 1
6	An open sentence formed by using the sign of equality "=" is called	A. Equation B. In equation C. True sentence D. False sentence
7	Range of tan x is _____	A. [-1, -] B. R C. Negative real numbers D. R - {x | - 1 < x < 1}
8	Find a if 1 is a root of the equation $x^2 + ax + 2 = 0$	A. 3 B. -3 C. 2 D. 0
9	The distance of the point (2.3) from x-axis is	A. 2 B. 3 C. 5
10	Period of cosec x is _____	
11	System of linear equations is inconsistent if	A. System has no solution B. System has one solution C. System has two solution D. None of above
12	If $f(x) = x^2 - x$ then f(0) is	A. 0 B. 1 C. 2 D. 3
13	Question Image	
14	Sum of all the four forth roots of unity is	A. 1 B. -1 C. i D. 0
15	If $f(x) = x^2$ then f(2) is	A. -2 B. 2 C. 4 D. -4
16	Question Image	
17	Question Image	
18		A. Rational no B. Natural no

18	√x = _____ if is a prime number	C. Irrational no D. Complex no

19	The solution set of x < 4 is	A. $-\infty < x < 4$ B. $-\infty > x > 4$ C. $-\infty < x < 2$ D. $-\infty > x > 2$

20	The law of sines can be used to solve oblique triangle when following information is given:	A. Two angles and a side B. Two sides and an angle opposite one of the given sides C. Two sides and the angle between two sided D. Option a and b