

NAT II Physical Science Mathematics

Sr	Questions	Answers Choice
1	If $K_1: K_2 = 1:1$ then the point P dividing the line is	A. Midpoint B. Extreme left point C. Extreme Right Point D. P lies out side $k_{sub>1</sub>}$ and $k_{sub>2</sub>}$
2	If you are looking a high point from the ground, then the angle formed is	A. Angle of elevation B. Angle of depression C. Right angle D. Horizon
3	Question Image	D. -2-i
4	Two natural numbers whose sum is 25 and difference is 5, are	A. 25, 20 B. 20, 10 C. 20, 5 D. 15, 10
5	Question Image	A. 0 B. 1 C. -1 D. 2
6	If any two rows (or any two columns) of a square matrix are inter changed, the determinant of the resultant matrix is	A. Same as the original determinant B. Additive inverse of the original determinant C. Both A and B D. Adj of the original matrix
7	Question Image	A. $\frac{1}{2}$ B. $\frac{3}{5}$ C. $\frac{4}{5}$ D. 1
8	A standard deck of 52 cards is shuffled. What is the probability of choosing the queen of the diamonds	A. $\frac{1}{5}$ B. $\frac{1}{13}$ C. $\frac{5}{52}$ D. $\frac{1}{52}$
9	The set of complex numbers forms a group under the binary operation of	A. Addition B. Multiplication C. Division D. Subtraction
10	$\sin(a+b) + \sin(a-b) =$	A. $\sin a \cos b$ B. $\sin a \sin b$ C. $\sin a + \cos b$ D. $\sin a - 2 \cos b$
11	A fraction in which the degree of the numerator is less than the degree of the denominator is called	A. Polynomial B. Proper fraction C. Rational fraction D. Mixed fraction
12	The complement of set A relative to universal set U is the set	D. $A - U$
13	The value of the polynomial $3x^3 + 4x^2 - 5x + 4$ at $x = -1$ is	A. 12 B. 1 C. 10 D. -10
14	Question Image	A. 0 B. -25 C. 5 D. 45
15	The radius of the circle $(x-1)^2 + (y+3)^2 = 64$ is	A. 8 C. 4 D. 64
16	Question Image	
17	The constant distance of all points of the circle from its centre is called the	A. Radius of the circle B. Secant of the circle

17. The constant distance of all points of the circle from its centre is called the

- C. Chord of the circle
- D. Diameter of the circle

18. Question Image

19. 120 degrees are equal to how many radians?

20. If α and β be irrational roots of a quadratic equation, then