

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	an $-an-1, \forall n \in \mathbb{N} \wedge n > 1$ in an A.P is called	A. Common difference B. nth term C. Common ratio D. None of these
2	$i^{(4n+2)} = \dots\dots\dots$	A. 1 B. i C. -1 D. -i
3	Question Image	
4	The positive real number which is the measure of the length of a vector is called the	A. Unit vector B. Modulus C. Inverse D. None of these
5	Question Image	
6	The cube roots of 8 are	
7	The transport of a rectangular matrix is a	A. Square matrix B. Rectangular matrix C. Row matrix D. Column matrix
8	If A is any matrix then its additive inverse is	A. A B. $A^{\sup>-1\sup>}$ C. $A^{\sup>t\sup>}$ D. -A
9	The set $\{\mathbb{Z} \setminus \{0\}\}$ is group w.r.t	A. Addition B. Multiplication C. Division D. Subtraction
10	Question Image	
11	Question Image	A. $f(x) = x^{\sup>2\sup>}$ B. $f(x^{\sup>2\sup>}) = x$ C. $f(x) = x$ D. none of these
12	Question Image	
13	The coefficient of x^{18} in $(ax^4-bx)^9$ after expansion is	A. $84a^{\sup>3\sup>} b^{\sup>6\sup>}$ B. $22a^{\sup>3\sup>} b^{\sup>6\sup>}$ C. $27a^{\sup>4\sup>} b^{\sup>5\sup>}$ D. $28a^{\sup>3\sup>} b^{\sup>6\sup>}$
14	Question Image	A. Singular B. Non-singular C. Adjoint D. None of above
15	Question Image	A. quadrant I B. quadrant II C. quadrant III D. quadrant IV
16	$a \cdot a^{-1} = a^{-1} \cdot a = 1$ is a	A. Commutative law of multiplication B. Multiplication identity C. Associative law of multiplication D. Multiplication inverse
17	Question Image	A. images B. pre-images C. constants D. none of these
18	Question Image	

A. $X = 0$

19 The axis of the parabola $y^2 = 4ax$ is

- B. $Y = 0$
- C. $X = y$
- D. $X = -y$

20 The number of different ways of describing a set is

- A. One
- B. Two
- C. Three
- D. Four