

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	If (a, b) is the mid-point of a chord passing thro' the vertex of the parabola $y^2 = 4x$, then	A. $a = 2b$ B. $2a = b$ C. $a ² >= 2b$ D. $2a = b ²$
2	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. A is proper subset of B B. A is an improper subset of B C. A is equivalent to B D. B is subset of A
3	The line through the centre and perpendicular to the transverse axis is called the	A. Major axis B. Minor axis C. Focal axis D. Conjugate axis
4	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. A variable B. A constant C. 0 D. None of these
5	Two cards are drawn at random from a well shuffled pack of cards. The probability that at least one of them is a face card is	A. $3 / 17$ B. $5 / 17$ C. $7 / 17$ D. $9 / 17$
6	The angle between the vectors $3i + j - k$ and $2i - j + k$ is	
7	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
8	A sequence of number whose reciprocals form an arithmetic sequence is called	A. Geometric sequence B. Arithmetic series C. Harmonic sequence D. Harmonic series
9	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. Free vector B. Null vector C. Unit vector D. None of these
10	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
11	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. 0 B. 1 C. -1 D. 2
12	$i^2 =$	A. 1 B. 2 C. -1 D. 0
13	The real numbers which satisfy an inequality form its	A. solution B. coefficient C. domain D. range
14	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
15	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. Rational fraction B. Proper fraction C. Improper rational fraction D. None of these
16	If $A = [a_{ij}]$ is $(m \times n)$ matrix then transpose of A is of the order	A. $m \times m$ B. $m \times n$ C. $n \times n$ D. $n \times m$
17	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. 0 B. 1 C. -1 D. none of these

18 Which symbolic notation represent unary operation ?

- B. \vee
- C. \wedge
- D. \leftrightarrow

19 The value of x for which the polynomials $x^2 - 1$ and $x^2 - 2x + 1$ vanish simultaneously is

- A. 2
- B. 1
- C. -1
- D. -2

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