

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Every natural number is	A. A prime number B. An irrational number C. An integer D. An even number
2	Question Image	A. 0 B. Independent of a C. Independent of b D. Independent of c
3	A statement which is either true or false is called	A. Induction B. Deduction C. Proposition D. Logic
4	Question Image	A. 2 B. 4 C. 6 D. 8
5	Question Image	A. -1 B. 1 C. 2 D. -2
6	If the angle between two vectors \underline{u} and \underline{v} is 0° or 180° , then the vectors \underline{u} and \underline{v} are:	A. Orthogonal B. Collinear C. Perpendicular D. None of these
7	Question Image	A. 0 B. -1 C. 1 D. not defined
8	Question Image	
9	If distance of (a,b) from x-axis is 2 then	A. a = 2 B. b = 2 C. a = b D. b = 4
10	A line segment whose end points lie on a circle is called	A. The secant of the circle B. The arc of the circle C. The chord of the circle D. The circumference of the circle
11	The interval in which $f(x) = x^3 - 6x^2 + 9x$ is increasing	A. $1 < x < 3$ B. $x < 1$ and $x > 3$ C. $x \geq 1$ and $x \leq 3$ D. $-\infty < x < \infty$
12	Range of $y = \sec x$ is	A. $-1 \leq y \leq 1$ B. $y \geq 1$ or $y \leq -1$ C. $y \leq 1$ or $y \geq -1$ D. $-\infty < y < \infty$
13	Question Image	
14	Question Image	
15	The negation of given number is a	A. Binary operation B. Unary operation C. Relation D. None of these
16	The range of function $f(x) = -x^2 + 2x - 1$ is	A. R B. $(-\infty, 0]$ C. $(-\infty, 1]$ D. $[0, \infty)$
17	A rectangular hyperbola whose centre is C is cut by any circle of radius r in four points P, Q, R and S. Then $CP^2 + CQ^2 + CR^2 + CS^2 =$	A. r^2 B. $2r^2$ C. $3r^2$ D. $4r^2$

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Question Image

- A. A
- B. 0
- C. Unit vector
- D. None

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A point of a solution regions where two of its boundary lines intersect, is called:

- A. Vertex of the solution
- B. Feasible point
- C. Point of inequality
- D. Null point of the solution region

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Question Image