

FSC Part 2 Mathematics Full Book Online Test

Sr	Questions	Answers Choice
1	The pair of lines of homogeneous second-degree equation $ax^2 + 2hxy + by^2 = 0$ are real and coincident, if:	A. $h^2 < ab$ B. $h^2 > ab$ C. $h^2 = ab$ D. None of these
2	The non-negative inequalities are called:	A. Parameters B. Constants C. Decision variables D. Vertices
3	If $a = 0$, then the line $ax + by + c = 0$ is parallel to:	A. y - axis B. x - axis C. along y - axis D. None of these
4	Question Image <input style="width: 100%; height: 20px;" type="text"/>	A. Integral B. Indefinite integral C. Differential D. Definite integral
5	If the upper limit is a constant and the lower limit is a variable, then the integral is a function of:	A. x B. y C. lower limit D. upper limit
6	The ordered pair _____ is a solution of the inequality $x + 2y < 6$.	A. (3, 3) B. (1, 1) C. (4, 4) D. (5, 5)
7	y - ordinate of the centroid of triangle with vertices A(-2, 3) B(-4, 1), C(3, 2) is:	A. 3 B. 1 C. 2 D. 0
8	Joint equation of $y + 2x = 0$, $y - 3x = 0$ is:	A. $(y+2x)(y-3x) = 0$ B. $(y-2x)(y-3x) = 0$ C. $(y+2x)(y+3x) = 0$ D. $(y-2x)(y+3x) = 0$
9	Question Image <input style="width: 100%; height: 20px;" type="text"/>	A. 0 B. 1 C. -1 D. 2
10	An integral of $3x^2$ is:	A. $x^3 + c$ B. 3 C. $6x$ D. $x^2 + c$
11	Question Image <input style="width: 100%; height: 20px;" type="text"/>	A. 4 B. Does not exist
12	Question Image <input style="width: 100%; height: 20px;" type="text"/>	A. (1, 1) B. (1, 3) C. (1, 4) D. (1, 5)
13	The focus of the parabola $x^2 = 4ay$:	A. (0, a) B. (-a, 0) C. (0, -a) D. (a, 0)
14	If the inclination of a line lies between $]90^\circ, 180^\circ[$, then the slope of line is :	A. Positive B. Negative C. Zero D. undefined
15	A line perpendicular to a radial chord of a circle at the end-point (which lies on the circle) is a:	A. Secant B. Diamater C. Chord D. Tangent
		A. Directrix

16 The number e denotes the _____ of the conic:

- B. Vertex
- C. Focus
- D. Eccentricity

17 If the cutting plane is slightly tilted and cuts only one nappe of the cone, then the section is a / an:

- A. Ellipse
- B. Circular cone
- C. Circle
- D. Point circle

18 Which one is not an exponential function ?

19 If a point lies inside a circle, then its distance from the center is:

- A. Equal to the radius
- B. Less than the radius
- C. Greater than the radius
- D. Equal to or greater than the

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- A. 4
- B. 2
- C. 1