

FSC Part 2 Mathematics Full Book Online Test

Sr	Questions	Answers Choice
1	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. 0 B. 1 C. e D. Does not exist
2	For a square of side x units, the rate of change of area with respect to the side is given by:	A. x B. x^2 C. 2x D. 2
3	The vertex of the parabola $y^2 = -4ax$ is:	A. (-a, 0) B. (a, 0) C. (0, -a) D. (0, 0)
4	The graph of the parabola $x^2 = -4ay$ is symmetric about:	A. x-axis B. major axis C. y-axis D. minor axis
5	The opening of the parabola $x^2 = 16y$ is to _____ of the x-axis:	A. Left B. Upward C. Right D. Downward
6	Non-vertical lines divide the plane into _____ half plane:	A. Upper and lower B. Many C. Left and Right D. None of these
7	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. c B. 0 C. 1 D. -c
8	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
9	A unit vector is defined as a vector whose magnitude is:	A. 0 B. 2 C. 1 D. 4
10	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. Position vector of O B. Position vector of P C. Unit vector D. Null vector
11	The ratio in which the line segments joining (2, 3) and (4, 1) is divided by the line joining (1, 3) and (4, 3) is:	A. 2 : 1 B. 3 : 1 C. 1 : 2 D. 1 : 1
12	The vertex of parabola $(x - 1)^2 = 8(y + 2)$ is:	A. (1, -2) B. (0, 1) C. (-1, -2) D. (1, 2)
13	$x = c$ is a vertical line parallel to _____.	A. x-axis B. y-axis may be C. y-axis D. None of these
14	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. 1 B. 2 C. 3 D. 4
15	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
16	X-co-ordinate of centroid of triangle ABC with A(-2, 3); B(-4, 1); C(3, 5) equals:	A. -1 B. 1 C. 3 D. -3

A One point

17 Infinite number of lines can pass through:

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

18 $y = mx + c$ is the equation of straight line in:

- A. Slope-intercept form
- B. Two points from
- C. Point slope form
- D. Intercepts form

19 In the case of rotation of axes which formula is true:

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- A. $f(x^2 + 1)$
- B. $f(x)$
- D. $f(x^2)$