

ICS Part 2 Mathematics Full Book Test Online

Sr	Questions	Answers Choice
1	Which one is an exponential function ?	
2	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. $5 \sin x$ B. $\cosh (5x)$ C. $5 \cosh (5x)$ D. $-5 \cosh (5x)$
3	The point of intersection of the perpendicular bisectors of a triangle is called:	A. Centroid B. Ortho-center C. Circums-center D. In-center
4	Two circles of radius 3 cm and 4 cm touch each other externally. The distance between their centers is:	A. 1 cm B. 7cm C. 4cm D. 5cm
5	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. x - axis B. z - axis C. y - axis D. None of these
6	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
7	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. $-\operatorname{cosec} x \cot x$ B. $\operatorname{cosec}^2 x$ C. $-\operatorname{cosec}^2 x$ D. $\operatorname{cosec} x \cot x$
8	The conic is a parabola, if:	A. $e = 1$ B. $e > 1$ C. $0 < e < 1$ D. $e = 0$
9	Question Image <input style="width: 500px; height: 20px;" type="text"/>	B. 0 C. 4 D. 7
10	the focal chord perpendicular to the axis of the parabola is called _____ of the parabola:	A. Directrix B. Latus rectum C. Focus D. Focal chord
11	An integral of $3x^2$ is:	A. $x^3 + c$ B. 3 C. $6x$ D. $x^2 + c$
12	The system of _____ involved in the problem concerned is called problem constraints:	A. Linear inequalities B. Equations C. Linear equalities D. None of these
13	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. Free vector B. Unit vector C. Null vector D. None of these
14	The vertex of the parabola $x^2 = -4ay$ is:	A. (a, 0) B. (0, 0) C. (0, -a) D. (0, a)
15	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. 4a B. 2a C. 4b D. 2b
16	If the cutting plane is parallel to the axis of the cone and intersects both of its nappes, then the section a / an:	A. Parabola B. Hyperbola C. Ellipse D. ...

		D. None of these
17	$x = c$ is a vertical line parallel to _____.	A. x-axis B. y-axis may be C. y-axis D. None of these
18	In equation of circle, coefficient of each of x^2 and y^2 are:	A. Not equal B. Opposite in signs C. Equal D. None of these
19	A line segment joining two distinct points on a parabola is called a _____ of the parabola:	A. Chord B. Vertex C. Focus D. Directrix
20	If the equation of the parabola is $x^2 = 4ay$, then opening of the parabola is to _____ of the x-axis:	A. Left B. Upward C. Right D. Downward