

Ics Part 2 Mathematics Chapter 6 Test Online

| Sr | Questions | Answers Choice |
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| 1 | The axis of the parabola $x^2 = 4ay$ is: | A. $x = 0$ B. $x = -a$ C. $y = 0$ D. $y = -a$ |
| 2 | A line that touches the curve without cutting through it is called: | A. Straight line B. Tangent line C. Normal line D. Vertical line |
| 3 | The equation of the latus-rectum of the parabola $y^2 = 4ax$ is: | A. $x = a$ B. $x = -a$ C. $y = a$ D. $y = -a$ |
| 4 | 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. None of these |
| 5 | The graph of the parabola $y^2 = -4ax$ is symmetric about: | A. x-axis B. major axis C. y-axis D. minor axis |
| 6 | The axis of the parabola $y^2 = -4ax$ is: | A. $x = a$ B. $x = 0$ C. $y = a$ D. $y = 0$ |
| 7 | A circle is of radius 5 cm, the distance of a chord 8 cm long from its center is: | A. 4 cm B. 3cm C. 2.5cm D. 3.4cm |
| 8 | Two imaginary tangents can be drawn to a circle from any point $P(x_1, y_1)$ _____ the circle: | A. Inside B. On C. Outside D. None of these |
| 9 | The vertex of the parabola $y^2 = -4ax$ is: | A. $(-a, 0)$ B. $(a, 0)$ C. $(0, -a)$ D. $(0, 0)$ |
| 10 | The radius of circle $x^2 + y^2 + 2gx + 2fy + c = 0$ is: | |
| 11 | In the case of translation of axes which formula is true: | A. $x = X - h$ B. $x = X + h$ C. $x + X = h$ D. None |
| 12 | The radius of circle $x^2 + y^2 + ax + by + c = 0$ is: | D. None |
| 13 | The vertex of the parabola $x^2 = 4ay$ is: | A. $(-a, 0)$ B. $(0, a)$ C. $(0, -a)$ D. $(0, 0)$ |
| 14 | Question Image <input style="width: 100%; height: 20px;" type="text"/> | A. Ellipse B. Parabola C. Hyperbola D. Circle |
| 15 | Question Image <input style="width: 100%; height: 20px;" type="text"/> | A. $x = 0$ B. $y = -a$ C. $y = 0$ D. $y = -a$ |
| 16 | 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 |

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| 17 | The focus of the parabola $x^2 = 4ay$: | A. $(0, a)$ B. $(-a, 0)$ C. $(0, -a)$ D. $(a, 0)$ |
| 18 | If r is the radius of any circle and C its center, then any point $P(x_1, y_1)$ lies on the circle only if: | A. $ CP < r$ B. $ CP > r$ C. $ CP = r$ D. None of these |
| 19 | The length of the latus rectum of the parabola $y^2 = 4ax$ is: | A. a B. $4a$ C. $2a$ D. None of these |
| 20 | The number e denotes the _____ of the conic: | A. Directrix B. Vertex C. Focus D. Eccentricity |