ICS Part 2 Mathematics Full Book Test Online

Sr	Questions	Answers Choice
1	Question Image	
2	$ax + by + c = 0$ has matrix from as:	B. $\lvert ax + by \rvert = \lvert -c \rvert$ C. $[ax + by] = [c]$ D. $[ax - by] = [-c]$
3	The vertex of the parabola $y^2 = -4ax$ is:	A. $(-a, 0)$ B. $(a, 0)$ C. $(0, -a)$ D. $(0, 0)$
4	If a straight line is perpendicular to x-axis, then its slope is:	A. 0 B. 1 C. 2 D. Undefined
5	Question Image	A. $\tan x + c$ B. $-\tan x + c$ C. $\sec x + c$ D. $-\sec x + c$
6	Question Image	
7	A chord passing through the focus of a parabola is called a _____ of the parabola:	A. Directrix B. Latus rectum C. Focus D. Focal chord
8	The point of intersection of internal bisectors of the angles of a triangle is called:	A. Centroid B. Ortho-centers C. Circums-center D. In-center
9	Question Image	A. Free vector B. Unit vector C. Null vector D. None of these
10	A function, which is to be maximized or minimized is called an _____:	A. Maximum function B. Objective funciton C. Minimum function D. None of these
11	The inequality $x < a$ is the open half plane to the _____ of the boundary line $x = a$:	A. Above B. Left C. Below D. Right
12	If the lower limit is a constant and the upper limit is a variable, then the integral is a function of:	A. x B. y C. lower limit D. upper limit
13	Which one is an exponential function ?	
14	A line which divides a plane into two parts is called:	A. Boundary point B. Boundary line C. Feasible line D. None
15	Two non parallel lines intersect each other at:	A. 1 point B. 2 points C. 3 points D. 4 points
16	Question Image	A. Open B. Closed C. Open as well as closed D. None of these
17	Which one is not an exponential function ?	
18	The radius of point circle is:	A. 0 B. $(0, 0)$

	The radius of point circle is.	C. r D. 1
19	Question Image	A. 0 B. 1 C. -1 D. 2
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