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MCQs – Ch # 5: F.Sc Part 2

CALCULUS AND ANALYTIC GEOMETRY, MATHEMATICS 12

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Choose the correct answer.

1. An equation in which each term has degree one is called
(a) Linear equation (b) Quadratic equation (c) Cubic equation (d) None of these
2. A statement that contains at least one of the symbols $<, >, \leq$ and $\geq$ I s called
(a) An equation (b) An inequality (c) Both a and b (d) None of these
3. The symbol used for the less then or equal to is
(a) $<$ (b) $>$ (c) $\geq$ (d) $\leq$
4. The number of the variables in $ax + by \leq c$ is
(a) 1 (b) 2 (c) 3 (d) 4
5. The variables used in system of linear inequalities are also known as
(a) Constants (b) Constraints (c) Solution (d) None of these
6. If $a < b,\ \forall\ a, b \in R$ then
(a) $-a < -b$ (b) $-a > -b$ (c) $a \leq b$ (d) None of these
7. That values of variables which satisfy an inequality are called its
(a) Solution (b) Constraints (c) Constants (d) None of these
8. A diagram showing a relationship between two variables is called
(a) Solution (b) Graph (c) Both a and b (d) None of these
9. A graph of the linear equation is always
(a) Straight line (b) Parabola (c) Ellipse (d) Circle
10. The graph of a linear inequality with two variables represents
(a) Ellipse (b) Circle (c) Region (d) None of these
11. A solution of $x + 2y < 6$ is
(a) (1,2) (b) (5,1) (c) (0,8) (d) None of these
12. The regions of inequalities are also called
(a) Half planes (b) Planes (c) Lines (d) None of these
13. The number of ordered pairs that satisfy the inequality is
(a) Finite (b) Infinite (c) Unique (d) None of these
14. For $ax + by \leq c$, The equation $ax + by = c$ is called
(a) Associated equation (b) Corresponding equation (c) Both a and b (d) None of these
15. The graph of an associated equation represents
(a) Solution of inequality (b) Boundary of half plane (c) Circle (d) None of these
16. A point which is used to determine position of half plane is called
(a) Corner point (b) Test point (c) Boundary point (d) None of these
17. The common region of all the graphs is called
(a) Feasible region (b) Solution region (c) Both a and b (d) None of these
18. Feasible region is a region restricted to the
(a) 1st quadrant (b) 2nd quadrant (c) 3rd quadrant (d) None of these
19. Each point of the feasible region is called
(a) Corner point (b) Vertix (c) Feasible solution (d) None of these
20. A point of solution region where two of its boundary lines intersect is called
(a) Corner point (b) Vertix (c) Both a and b (d) None of these
21. The corner point for $x - 2y \leq 6$ and $2x + y \geq 2$ is
(a) (1,2) (b) (2,2) (c) (2,-2) (d) (2,1)
22. The corner point for $x - 2y \leq 6$ and $x + 2y \leq 10$ is
(a) (1,3) (b) (2,3) (c) (-2,6) (d) None of these

23. A vertical line divides the plane into
(a)Upper and lower half planes (b) Left and right half planes
(c) Both a and b (d) None of these

24. The solution set of the inequality $2x + y \leq 6$ lies on the _____ of the boundary line
(a) Left (b) Right (c) Upper side (d) Lower side

25. The solution set of the inequality $3x - 4 \geq 0$ lies on the _____ of the boundary line
(a) Left (b) Right (c) Upper side (d) Lower side

26. The process used to maximize or minimize a quantity is called
(a) Optimization (b) Solution (c) Both a & b (d) None of these

27. A function which is used to maximize or minimize is called
(a) Objective solution (b) Objective function (c) feasible region (d) None of these

28. The variables used in the system of linear inequalities are
(a) Negative (b) Non-negative (c) Feasible region (d) None of these

29. Non-negative constraints are also known as
(a) Dependent variables (b) Discrete variable (c) Decision variables (d) None of these

30. x-intercept for $x + 2y = 6$ is
(a) 1 (b) 2 (c) 6 (d) 12

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