

**TYSCA**  
**L3007BCA01 – OPERATIONS RESEARCH**  
**QUESTION BANK**

**MULTIPLE CHOICE QUESTIONS****UNIT 1**

1. Operations research is the application of \_\_\_\_\_ methods to arrive at the optimal solution to the problems.
  - A. mathematical
  - B. scientific
  - C. A and B both
  - D. none
2. Feasible solution satisfies \_\_\_\_\_.
  - A. Only constraints
  - B. only non-negative restriction
  - C. (a) and (b) both
  - D. (a), (b) and Objective function
3. In Degenerate solution value of objective function \_\_\_\_\_.
  - A. increases infinitely
  - B. does not exist
  - C. does not exist (a), (b) and (c) all these basic variables are zero
  - D. None of these
4. Minimum  $Z =$  \_\_\_\_\_.
  - A. -maximum (Z)
  - B. maximum (Z)
  - C. -maximum (Z)
  - D. None of the above
5. In graphical method the restriction on number of variables is \_\_\_\_\_.
  - A. 2
  - B. 3
  - C. less than 2
  - D. more than 2
6. In graphical representation the feasible region is defined as \_\_\_\_\_. region.
  - A. Solution
  - B. Feasible solution
  - C. Optimal
  - D. None
7. Graphical optimal value for  $Z$  can be observed from \_\_\_\_\_.
  - A. Corner points of feasible region
  - B. Outer points of infeasible region
  - C. Both A and B
  - D. None of the above
8. In LPP the constraint to be satisfied is \_\_\_\_\_.
  - A. Constraints have to be linear
  - B. Objective function have to be linear
  - C. Both (a) and (b)
  - D. None of the above
9. The solution to LPP gives better is \_\_\_\_\_.
 
$$\text{Max } Z = 5x_1 + 3x_2 \quad \text{subject to } x_1 + x_2 \leq 5, \quad -x_1 + x_2 \leq 2 \quad \text{where } x_1, x_2 \geq 0$$
  - A. Unbounded solution
  - B. Max  $Z = 14$
  - C. Min  $Z = 3$
  - D. Infeasible solution
10. The solution to LPP gives better is \_\_\_\_\_.
 
$$\text{Max } Z = 30x_1 + 25x_2 \quad \text{subject to } 3x_1 + 2x_2 \leq 12, \quad -2x_1 + 3x_2 \leq 2 \quad \text{where } x_1, x_2 \geq 0$$
  - A. Unbounded solution
  - B. Max  $Z = 30$
  - C. Min  $Z = 10$
  - D. Infeasible solution
11. In the definition of LPP  $m$  stands for number of constraints and  $n$  for number of variables, then which of the following relations hold?
  - A.  $m \leq n$
  - B.  $m \geq n$
  - C.  $m \leq n$
  - D. None of them

# Operations Research Multiple Choice Questions And Answers

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