Class Test

1. Operations management can be defined as the application of _____ to a problem within a system to yield the optimal solution.

   A. Suitable manpower B. mathematical techniques, models, and tools C. Financial operations D. all of above

2. In operations research, the _____ are prepared for situations.
   A. mathematical models B. physical models diagrammatic C. diagrammatic models D. all of above

3. In LPP the condition to be satisfied is
   A. Constraints have to be linear B. Objective function has to be linear C. none of the above D. both a and b

4. In assignment problem of maximization, the objective is to maximise
   A. Profit B. optimization C. cost D. Loss

5. _____ occurs when the number of occupied squares is less than the number of rows plus A. Degeneracy B. Infeasibility C. Unboundedness D. Unbalance

6. An activity is critical if its _____ float is zero A. total B. free C. independent D. interference

7. If all aij values in the entering variable column of the simplex table are negative, then _____. A. solution is unbounded B. solution is degenerate C. there exist no solution D. there are multiple solutions

8. The similarity between assignment problem and transportation problem is _____. A. both are rectangular matrices B. both are square matrices C. both can be solved y graphical method D. both have objective function and non-negativity constraints

9. Which of the following methods is used to verify the optimality of the current solution of the transportation problem A. Least cost method B. Vogel's approximation method C. Modified distribution method D. All of the above

10. The Operations research technique which helps in minimizing total waiting and service costs is A. Queuing Theory B. Decision Theory C. Both A and B D. None of the above