

**Select Business & Technology College**  
**Department of Business Management**

Name \_\_\_\_\_

I.D. No. \_\_\_\_\_

**PART I:** Choose the best answer from the given alternatives (1 point each)

1. Operation research deals with
  - A. Theoretical problem
  - B. Pure research in to operation
  - C. Real world problem
  - D. Military problem only
2. Physical model is an example of
  - A. An iconic model
  - B. An analogue model
  - C. Verbal model
  - D. A mathematical model
3. The first step in solving problems through operations research is
  - A. Observation
  - B. Definition of the problem
  - C. Model construction
  - D. Model solution
4. Operations Research approach is \_\_\_\_\_
  - A. multi-disciplinary
  - B. scientific
  - C. intuitive
  - D. collect essential data
5. Which of the following is not the phase of OR methodology?
  - A. Formulating a problem
  - B. Constructing a model
  - C. Establishing controls
  - D. Controlling the environment
6. OR techniques help the directing authority in optimum allocation of various limited resources
  - A. Men and Machine
  - B. Money
  - C. Material and Time
  - D. All of the above
  - E. None of the above
7. The main limitation of operations research is that it often ignores the human element in the production process
  - A. True
  - B. False
8. Decision variables are
  - A. Controllable
  - B. Uncontrollable
  - C. Parameter
  - D. None of the above
9. A model is
  - A. An essence of reality
  - B. An approximation
  - C. An idealization
  - D. All the above
10. A graphical method should not be used to solve a linear programming problem when
  - A. There are only two constraints
  - B. There are more than two constraints
  - C. There are only two variables
  - D. There are more than two variables
11. Managers generally prefer to use a quantitative approach when one or more of the following conditions exist Except
  - A. The problem is complex
  - B. The problem is not familiar
  - C. The costs involved are substantial
  - D. The problem is fairly simple
12. \_\_\_\_\_ models involve more risks and uncertainties
  - A. Probabilistic
  - B. Deterministic
  - C. Both a and b
  - D. None of these
13. \_\_\_\_\_ are called mathematical models
  - A. Iconic models
  - B. Symbolic models
  - C. Analogue models
  - D. None of these
14. Operations research techniques are \_\_\_\_\_ in nature
  - A. Qualitative
  - B. Judgmental
  - C. Approximate
  - D. Quantitative
15. Decision variables are those
  - A. which pertain to unlimited resource
  - B. which pertain to limited resource
  - C. whose values provide the answers to the problem
  - D. which are redundant to the problem

**Part II:** Give appropriate explanations to the following questions (2.5 point each).

1. Define operations research and briefly explain its characteristics
2. Briefly describe the limitations of operations research

# Operation Research Exam Guide

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Operations Research ,1963 Covers all aspects of OR including computing and decision technology environment energy and natural resources financial services logistics and supply chain operations manufacturing operations optimization public and military services simulation stochastic models telecommunications and transportation      *Study Guide to Accompany*

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