

## **Operations Research Introduction Test**

### **Part 1: Multiple Choice Questions**

**1. What is Operations Research?**

- A) A field focused on decision-making and optimization.
- B) A type of financial analysis.
- C) A method for marketing strategies.
- D) A study of human behavior.

**2. Which of the following is NOT a typical application of Operations Research?**

- A) Supply chain management.
- B) Traffic engineering.
- C) Personal fitness training.
- D) Resource allocation.

**3. What is the primary goal of Operations Research?**

- A) To eliminate all risks in decision-making.
- B) To find the best possible solution to complex problems.
- C) To increase the number of options available.
- D) To simplify all decision-making processes.

**4. Which technique is commonly used in Operations Research?**

- A) Regression analysis.
- B) Linear programming.
- C) SWOT analysis.
- D) Market segmentation.

**5. In Operations Research, what does the term "feasible solution" refer to?**

- A) A solution that is optimal.
- B) A solution that meets all constraints.
- C) A solution that is easy to implement.
- D) A solution that is the most economical.

### **Part 2: Short Answer Questions**

**1. Define Operations Research in your own words.**

**2. Explain the importance of constraints in an Operations Research problem.**

3. **Describe a real-world scenario where Operations Research can be applied.**
4. **What are some common tools and techniques used in Operations Research?**
5. **How does Operations Research contribute to better decision-making in organizations?**

**Part 3: Essay Question**

- Discuss the evolution of Operations Research as a discipline. Include its historical background, key milestones, and its impact on various industries.