

## **Prescriptive\_Analytics - Questions**

**Q1. Reducing DC\_East capacity from 600 to 500 affects total cost how?**

- A. Cost decreases
- B. Cost increases moderately
- C. No change
- D. Cost drops sharply

**Correct answer: B. Cost increases moderately**

**Q2. When Store\_C demand rises from 350 to 450 units, which DC will supply more?**

- A. DC\_West
- B. DC\_East
- C. DC\_North
- D. None; demand unmet

**Correct answer: A. DC\_West**

**Q3. Adding +2 cost to all DC\_West routes causes:**

- A. More shipments from DC\_West
- B. DC\_West routes to reduce or become unused
- C. Lower total cost
- D. No effect

**Correct answer: B. DC\_West routes to reduce or become unused**

**Q4. Adding a new DC\_North with 300 supply typically leads to:**

- A. Higher total cost
- B. Lower total cost
- C. More capacity unused
- D. No difference

**Correct answer: B. Lower total cost**

**Q5. Limiting DC\_West total shipments to 400 units results in:**

- A. Unchanged objective cost
- B. Slight cost increase due to constraint
- C. Major cost decrease
- D. Infeasible optimization

**Correct answer: B. Slight cost increase due to constraint**