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## CHAPTER 5

### TRANSPORTATION, ASSIGNMENT, AND NETWORK MODELS

#### SOLUTIONS TO DISCUSSION QUESTIONS

**5-1.** The transportation model is an example of decision making under certainty since the costs of each shipping route, the demand at each destination, and the supply at each source are all assumed to be known with certainty.

**5-2.** A balanced transportation problem is one in which total demand (from all destinations) is exactly equal to total supply (from all sources). If a problem is unbalanced, either the demand or the supply constraints must be inequalities.

**5-3.** The enumeration method is not a practical means of solving  $5 \times 5$  or  $7 \times 7$  problems because of the number of possible assignments to be considered. In the  $5 \times 5$  case, there are  $5! = (5 \times 4 \times 3 \times 2 \times 1) = 120$  alternatives that need to be evaluated. In the  $7 \times 7$  case, there are  $7! = 5,040$  alternatives.

**5-4.** The minimal-spanning model is one that will find the best way to connect all the nodes in a network together while minimizing the total distance between nodes or the total cost of connecting the nodes together. A number of decision modeling problems can be solved using this model: an example was given connecting water and power to a real estate development project. This model can also be used to determine the best way to deliver cable TV to households, connect computers on a computer network, install an oil pipeline, develop a natural gas network, and more.

**5-5.** The maximal-flow model can be used to determine the maximum number of cars that can flow through a road system, the number of gallons of chemicals that can flow through a chemical processing plant, the

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