1. Simulation is a technique usually reserved for studying only the simplest and most straightforward of problems.
a. True
©. False
2. A simulation model is designed to arrive at a single specific numerical answer to a given problem.
a. True

## (b) False

3. Simulation typically requires a familiarity with statistics to evaluate the results.
a. True
b. False
4. The verification process involves making sure that a. the model adequately represents the real-world system.
b the model is internally consistent and logical.
c. the correct random numbers are used.
d. enough trial runs are simulated.
5. The validation process involves making sure that
a. the model adequately represents the real-world system.
b. the model is internally consistent and logical.
c. the correct random numbers are used.
d. enough trial runs are simulated.
6. Which of the following is an advantage of simulation?
(a) It allows time compression.
b. It is always relatively simple and inexpensive.
c. The results are usually transferable to other problems.
d. It will always find the optimal solution to a problem.
7. Which of the following is a disadvantage of simulation?
a. It is inexpensive even for the most complex problem.
b. It always generates the optimal solution to a problem.
c. The results are usually transferable to other problems.
(d.) Managers must generate all of the conditions and constraints for solutions that they wish to examine.
8. A meteorologist was simulating the number of days that rain would occur in a month. The random number interval from 01 to 30 was used to indicate that rain occurred on a particular day, and the interval 31-00 indicated that rain did not occur. What is the probability that rain did occur?
a. 0.30
b. 0.31
c. 1.00
d. 0.70
9. Simulation is best thought of as a technique to
a. give concrete numerical answers.
(b) increase understanding of a problem.
c. provide rapid solutions to relatively simple problems.
d. provide optimal solutions to complex problems.
10. When simulating the Monte Carlo experiment, the average simulated demand over the long run should approximate the
a. real demand.
(b) expected demand.
c. sample demand.
d. daily demand.
