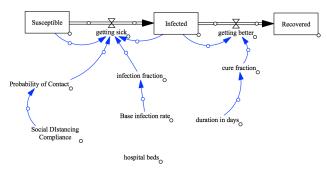
COSC150 ICA3 (20 April 2023)

Name/Pledged no help on first take_____

(Open Web/Notes allowed ONLY for rework)

We started this course by asserting that scientists communicate in two basic ways: drawing pictures and telling stories. We've spent several weeks doing that!

- 1. A model that has at least one element of randomness can be described as .
- **2.** A model whose behavior depends solely on its parameter values and the initial conditions can be described as ______.
- **3.** Consider the following simple *system model* of the spread of a communicable disease:



a. Identify the 4 basic components (building blocks) of system models and give examples of each in the above model:

a. S_					
b. E					
c. P_					
d. V					
e. A					
	What are the 4 basic components of the stories of most agent-based models?				
a	What are the 4 basic components of the stories of most agent-based models?				
a	<u> </u>				
	<u> </u>				

6.	List as many of the characteristics of you remember that distinguish one f	f System Models and Agent Models that rom another:
	SYSTEM MODELS	AGENT MODELS

7.	In terms of a process for buil	ding and	testing an	agent r	nodel,	what	are the
	three stages of model develop	ment:					

- a. First you determine which agents _____
- b. Then you define how those agents _____
- c. Then you define how those agents _____
- **8.** What is the main characteristic of a model that would require time-synched (Jacobi) updating of agents as opposed to sequential updating of agents (Gauss-Seidel)? (Hint: think of the difference of the forest fire model vs. the "usual" SIR disease model.)