

# Introduction to Agent-Based Modeling (Summer 2023)

## 9.6 Wrapup and the Future of ABM » Unit 9 Exam

### Instructions

Please select the best answer.

### Question

What does the causal state modeling example show that we can learn automatically?

- A. Everything we need for an agent-based model
- B. Rules for an agent-based model
- C. Patterns of behavior of aggregate systems
- D. How many agent to model

### Question

The growth of \_\_\_\_\_ provides us with more insight into human activity than any previous time in history.

- A. big data
- B. census data
- C. lab studies
- D. surveys

### Question

The goal of \_\_\_\_\_ is to create a suite of models that are both generalizeable and can create specific forecasts

- A. full spectrum modeling
- B. iterative modeling
- C. pattern-oriented modeling
- D. agent-based modeling

### Question

\_\_\_\_\_ is the idea that model developers and subject matter experts should communicate often.

- A. pattern-oriented modeling
- B. agent-based modeling
- C. iterative modeling
- D. full spectrum modeling

### Question

Which of these pieces of NetLogo syntax is associated with procedures that are created without a name?

- A. MAP
- B. REDUCE
- C. RUN
- D. -->

### Question

In the code, (map [ (rev emp) --> round ((rev / emp) / 1000)] rlist elist), what do rev and emp refer to?

- A. elements of a list that you are iterating over

- B. the first and second variable in the entire model
- C. a random number multiplied by one and two respectively
- D. they do not refer to anything

**Question**

Participatory simulation allows \_\_\_\_\_ to interact with (the) \_\_\_\_\_.

- A. people, robots
- B. people, virtual agents
- C. doctors, patients
- D. parts, whole

**Question**

System dynamics modeling is primarily composed of what two elements?

- A. math, equations
- B. agents, flows
- C. stocks, flows
- D. stocks, agents

**Question**

The GIS extension can read data directly from (a/n) \_\_\_\_\_.

- A. java file
- B. online internet collection
- C. shapefile
- D. database

**Question**

Betweenness centrality computes the node which exists on the greatest number of \_\_\_\_\_ between \_\_\_\_\_.

- A. shortest paths, nodes
- B. nodes, nodes
- C. shortest paths, cities
- D. eigenvectors, eigenvalues