

Introduction to Agent-Based Modeling (Summer 2023)

9.6 Wrapup and the Future of ABM » Unit 9 Exam

Instructions 1

Please select the best answer.

Question 2

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
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Question 3

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 4

The goal of _____ is to create a suite of models that are both generalizable and can create specific forecasts

- A. full spectrum modeling
 - B. iterative modeling
 - C. pattern-oriented modeling
 - D. agent-based modeling
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Question 5

_____ 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 6

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 7

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
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Question 8

Participatory simulation allows _____ to interact with (the) _____.

- A. people, robots
 - B. people, virtual agents
 - C. doctors, patients
 - D. parts, whole
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Question 9

System dynamics modeling is primarily composed of what two elements?

- A. math, equations
 - B. agents, flows
 - C. stocks, flows
 - D. stocks, agents
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Question 10

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

- A. java file
 - B. online internet collection
 - C. shapefile
 - D. database
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Question 11

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