Introduction to Agent-Based Modeling (Summer 2023) 8.6 Unit 8 Wrapup » Unit 8 Test

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nstructions 1
Please select the best answer.
Question 2
The Game of Life has the ability to create
• A. real robots
B. self-reproducing automata
• C. fully mobile agents with network connections
D. patterns of behavior that don't exist in ABM
Question 3
One common feature between ABM and CA is:
• A. the timestep-based scheduler
• B. mobile agents
• C. experimental tools
D. a fixed set of binary rules
Question 4
n many ways, the desire to build economic models that can handle modern complexities, at least partially, led to the development of one of the first ABM toolkits.
• A. Repast
• B. MASON
• C. Swarm
D. NetLogo
Question 5
Because Genetic Algorithms use a population of solutions, it is possible to good solutions to create better ones.
• A. modify
B. recombine
• C. mutate
• D. delete
Question 6
Body syntonic reasoning is employed in agent-based modeling in that:
• A agents and humans can participate together

- B.agents can reason about their own bodies
- C. agents are similar to bodies
- $\circ~$ D. stakeholders identify with agents to reason and understand their behavior

Question 7	
The main difference between NetLogo and Logo is that NetLogo can handle	
• A. thousands of agents	
B. one agent	
。 C. graphical displays	
D. modern computational structures	
Question 8	
Object-oriented programming and agent-based model share similarities in that:	
A. 00 was created to model complex systems phenomena	
B. agents can be viewed as objects in the 00 paradigm	
C. they do not share similarities	
D. agent-based modeling is a programming language	
Question 9	
The Actor paradigm and ABM both place an emphasis on:	
A. local interactions	
B. path dependence	
C. participatory simulation	
D. experimental design	
Question 10	
Parallel computing requires the creation of special languages because:	
A. serial machines run slower	
B. different processors behave differently	
• C. standard computing architectures assume that every element can access the full data of the program at all times	
D. communication between processes takes a long time	
Question 11	
is the field of studying computational models of natural life.	
A. machine learning	
B. evolutionary computation	
C. system dynamics modeling	
• D. artificial life	