Question 1

In the section on Verification, we discussed a component test to make sure that the setup of the voting model was correct. What othe would it be appropriate to create a component test for within the NetLogo model?

- A. the way that agents are placed in the model
- B. the determination of the vote for each agent
- C. the model's BehaviorSpace output
- D. verifying that the model's switches control the right functions

Question 2

What is an example of micro-face validity for the voting model?

- A. voters choose one vote or the other
- B. voters are green or blue
- C. the aggregate patterns of voting match empirical aggregate patterns
- D. the number of agents in the model is equivalent to the US population

Question 3

Which of these is not a traditional dimension of replication for computer models?

- A. geography
- B. language / toolkits
- C. people
- D. time

Question 4

Calibration is performed on _____ data, while validation is performed on _____ data.

- A. input, testing
- B. training, output
- C. training, testing
- D. input, output

Question 5

What is the name for a description of code that is very similar to code, but is not written in the final language?

- A. NetLogo
- B. pseudocode
- C. flowchart
- D. javascript

Question 6

What is an example of empirical output validation for the flocking model?

- A. the velocity of the birds in the model is set to be similar to the velocity of birds in the real world
- B. the overall patterns of behavior look like flocks
- C. demonstrating that the average flock size in the model is similar to real average flock sizes
- D. the color of the birds is appropriate

Question 7

With respect to the voting model, if one of the political scientists argues that the model is unrealistic because the some individuals o[...] trusted more than others, what kind of validation concern is this?

- A. macro-face validation
- B. micro-face validation
- C. empirical output validation
- D. cross-validation

Question 8

The process by which one developer creates an implemented model from another developer's conceptual model is:

- A. calibration
- B. replication
- C. verification
- D. validation

Question 9

When a model indicates that a certain result will always happen, such result is a(n) _____ result.

- A. variant
- B. path dependent
- C. stochastic
- D. invariant

Question 10

Which type of verification is rarely possible for an agent-based model?

- A. documentation
- B. formal verification by proof
- C. unit testing
- D. debugging walkthrough