

# Stateflow Quiz 3

The respondent's email (amlali98eg@gmail.com) was recorded on submission of this form.

## 1. What is Stateflow primarily designed for? \*

- ☐ a) Modeling and simulating combinational logic only
- ☒ b) Modeling and simulating sequential decision logic
- ☐ c) Modeling and simulating continuous-time systems
- ☐ d) Modeling and simulating mechanical systems

## 2. What are the key features of Stateflow? \*

- ☐ a) Only supports hierarchy and events
- ☒ b) Deterministic execution with hierarchy, parallelism, temporal operators, and events
- ☐ c) Limited to finite state machines only
- ☐ d) No support for graphical components



**3. How can you identify the type of a Stateflow chart by its icon? \***

- ☒ a) No icon for different chart types
- ☐ b) C charts have a specific icon
- ☐ c) M charts have a specific icon
- ☐ d) Both C and M charts share the same icon

**4. What is the purpose of configuring debug operations after creating a chart? \***

- ☐ a) Enhance chart visualization
- ☐ b) Configure the simulation speed
- ☒ c) Apply recommended settings for debugging
- ☐ d) Adjust the chart colors

**5. How are Stateflow breakpoints set and cleared? \***

- ☐ a) Breakpoints are set automatically
- ☐ b) Breakpoints can only be set on transitions
- ☒ c) Right-click on the object to set breakpoints, and clear them the same way
- ☐ d) Breakpoints can only be set on states



**6. What is the significance of an execution status badge in Stateflow? \***

- ☐ a) Indicates the chart is in pause mode
- ☐ b) Marks the beginning of a simulation
- ☒ c) Represents the active object when execution pauses
- ☐ d) Indicates an error in the chart

**7. How does Stateflow handle watches during simulation? \***

- ☐ a) Watches are not supported in Stateflow
- ☐ b) Watches provide information about the current time step
- ☒ c) Watches monitor variables and data during simulation
- ☐ d) Watches indicate the chart execution order

**8. What is the benefit of conditional breakpoints in Stateflow? \***

- ☐ a) They make the simulation faster
- ☐ b) They allow breakpoints to be activated or deactivated at will
- ☒ c) They provide a visual trigger on top of the chart
- ☐ d) They remove the need for breakpoints altogether



**9. How are local events in Stateflow triggered? \***

- ☐ a) Through input triggers like Function Call
- ☐ b) By sending an event using the send function
- ☒ c) Automatically at every chart call
- ☐ d) By setting breakpoints

**10. What is the syntax for broadcasting local events in Stateflow? \***

- ☐ a) send(Event\_Name, Destination\_State)
- ☐ b) send(Event\_Name)
- ☒ c) broadcast(Event\_Name)
- ☐ d) activate(Event\_Name)

**11. How can multiple input events be handled in Stateflow? \***

- ☐ a) Create a separate chart for each event
- ☒ b) Use a multiplexer (MUX) to combine external events
- ☐ c) Add more stateflow input events for each external event
- ☐ d) Disable one of the input events



**12. What types of operators are available in Stateflow for creating conditions? \***

- ☐ a) Arithmetic and Logical Operators only
- ☐ b) Temporal and Comparison Operators only
- ☐ c) Unary and Bitwise Operators only
- ☒ d) Arithmetic, Logical, Comparison, and Temporal Operators

**13. What is the purpose of a graphical function in Stateflow? \***

- ☒ a) Enhances chart visualization
- ☐ b) Represents a stable state of the system
- ☐ c) Helps reuse control-flow logic
- ☐ d) Provides a visual trigger for debugging

**14. Where can a graphical function reside in Stateflow for maximum scope? \***

- ☐ a) Only at the state level
- ☐ b) Only at the chart level
- ☒ c) Anywhere in a chart, state, or subchart
- ☐ d) Only at the subchart level



**15. What is the purpose of atomic boxes in Stateflow? \***

- ☐ a) To limit the use of graphical functions
- ☐ b) To restrict the presence of states
- ☒ c) To create modular, reusable logic
- ☐ d) To enhance chart readability

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