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**CSC 323 - Object Oriented Programming  
Test II**

**NAME:**

**STUDENT ID:**

Please circle the letter corresponding to the correct answer.

- 1) In an Inheritance relationship of a Parent Class to a Subclass, Multiplicity is:
  - a- One to One
  - b- One to Many
  - c- Many to One
  - d- Does not apply
  - e- None of the above
  
- 2) Which of the following is True regarding Start and End States for an object:
  - a- An object can have more than one start state and more than one stop state.
  - b- An object must have one start state and one stop state.
  - c- An object must have one start state and can have more than one stop state.
  - d- An object can have more than one start state and only one stop state.
  - e- None of the above
  
- 3) Which statement is true concerning an automatic versus a non-automatic state transition?
  - a- Automatic: Take zero time. Non-Automatic: Does not take zero time.
  - b- Automatic: Cannot be interrupted. Non-Automatic: Can be interrupted.
  - c- Both types do not take zero time and can be interrupted.
  - d- Both types take zero time and cannot be interrupted.
  - e- None of the above.
  
- 4) In a state transition, which statement is true? An action ...
  - a- occurs before the state transition occurs.
  - b- occurs when the state transition occurs.
  - c- occurs after the state transition occurs.
  - d- Is the state transition.
  - e- None of the above.

5) In a state transition, which statement is true concerning an event?

- a- An event may trigger a state transition.
- b- A state transition may trigger an event.
- c- An event is a message sent to another object in the system.
- d- a and c
- e- b and c

6) A guard condition:

- a- is a Boolean expression.
- b- allows a state transition if condition true.
- c- is an expression of attribute values.
- d- a and b
- e- a and b and c

7) Static views of the system are:

- a- Sequence diagrams
- b- Use Case diagrams
- c- Class diagrams
- d- Collaboration diagrams
- e- None of the above

8) Which is a false statement? A message...

- a- represents behavior of the receiving class
- b- is captured as an operation on the class diagram
- c- can be shown in a sequence diagram.
- d- Can be shown in a collaboration diagram.
- e- None of the above.

9) Which of the following is not related to the process view:

- a- Performance
- b- Portability
- c- Availability
- d- Fault Tolerance
- e- None of the above

10) Which of the following is related to the logical view:

- a- Scalability
- b- Reuse
- c- Software Management
- d- Functionality
- e- a and d

11) Parameterized classes are used to build container classes:

- a- true
- b- false

12) An aggregation containment by reference is shown by a filled diamond:

- a- true
- b- false

13) An aggregation is a uni-directional relationship

- a- true
- b- false

14) A dependency relationship is shown by a dashed line between a client and a supplier

- a- true
- b- false

15) In a synchronous concurrency, mutual exclusion requires collaboration among client threads

- a- true
- b- false

16) A guard condition is often a private operation.

- a- true
- b- false

17) A class must do only one thing

- a- true
- b- false

18) Information for the process view is created as diagrams in the component view

- X a- true  
b- false

19) A User Interface is independent of the implementation language

- X a- true  
b- false

20) A Guarded class has its own thread of control

- X a- true  
b- false