

Name: _____

Student#: _____

CSE Account: _____

Points: _____ /9

Show all work clearly and in order, and underline your final answers. Use Eiffel notation when necessary, sketch all relevant graphs and write down all relevant mathematics. You have 20 minutes to take this 9 points (3%) quiz.

1. Agents in Eiffel are?
 - A. operations that represent objects
 - B. objects that represent operations
 - C. sequence of elements
 - D. a method to handle exceptions

2. Which of the following operators can be used to access the tuple's entry?
 - A. item
 - B. @
 - C. []
 - D. All above

3. What does the expression mean $A \rightarrow B$ in Eiffel?
 - A. class A is a superclass of class B
 - B. class A inherits from class B
 - C. predicate A implicates logically predicate B
 - D. the expression is not valid in Eiffel

4. What does the following code mean in Eiffel?
`FUNCTION [ANY, TUPLE [REAL], REAL]`
 - A. function from class REAL that takes a single parameter and returns ANY
 - B. function from any class that takes a TUPLE as a parameter and returns REAL
 - C. function from class TUPLE with no parameters that returns REAL
 - D. function from any class that takes a single REAL as a parameter and returns REAL

5. What does it mean that *modules should be both Open and Closed* ?
 - A. modules should be open for modification by the owner but closed for modification by other developers
 - B. modules should be encrypted (closed) and could be decrypted (opened) with a key
 - C. modules should be open for modification and have stable API
 - D. modules should have open specification and closed implementation

6. Inheritance from the **module** point of view is?
- A. if B inherits from A, all the services of A are potentially available in B
 - B. if B inherits from A, all the services of B are potentially available in A
 - C. If B inherits from A, whenever an instance of A is required, an instance of B will be acceptable
 - D. If B inherits from A, whenever an instance of B is required, an instance of A will be acceptable
7. Inheritance from the **type** point of view is?
- A. if B inherits from A, all the services of A are potentially available in B
 - B. if B inherits from A, all the services of B are potentially available in A
 - C. If B inherits from A, whenever an instance of A is required, an instance of B will be acceptable
 - D. If B inherits from A, whenever an instance of B is required, an instance of A will be acceptable
8. What is the proper descendant of class B?
- A. any class inheriting from B and B itself
 - B. any of parents of class B
 - C. any of descendants including B
 - D. any of descendants other than B itself
9. Which of the following is correct?
- A. **Binding** should be checked at compile time and **Typing** should be checked at runtime
 - B. **Binding** should be checked at runtime and **Typing** should be checked at compile time
 - C. **Binding** and **Typing** should be checked at compile time
 - D. **Binding** and **Typing** should be checked at runtime

Answers

1. B 2. D 3. B 4. D 5. C 6. A 7. C 8. D 9. B