

## CITC1310 – Final Exam Review Questions

1. What is a method?
2. What are parameters?
3. What are arguments?
4. How are arguments passed in Java?
5. Be able to identify the parts of a method signature.
6. What is method overloading?
7. What are the rules about method overloading?
8. What is scope?
9. Why do we use methods?
10. What is an object? (What two things do objects have?)
11. What is the difference between static and non-static methods?
12. What are classes? How do they relate to objects?
13. What is a constructor?
14. What is the minimal set of constructors that a class should provide?
15. What are the two main design goals in OOP, and what does each mean?
16. What are the access modifiers in Java, and what do each do?
17. What access modifier should be used for variables?
18. What access modifier should be used for most constructors and methods?
19. What does the following code create?  
  

```
PhoneRecord record;
```
20. How do you instantiate an object?
21. In what area of memory are objects created?

22. What happens when an object has no references?
23. Be able to write code for a simple class.
24. Be able to write code which creates and uses an object.
25. What is the purpose and syntax of each of the following UML diagrams:
  - Class Diagram
  - Object Diagram
26. What is aggregation and composition? Be able to provide an example of each and/or identify which is at play.
27. How is aggregation represented in a UML diagram?
28. How is composition represented in a UML diagram?
29. What are the steps in the object oriented analysis and design process?
30. Given a sample problem, be able to carry out the OOAD and draw appropriate UML diagrams.
31. How do you declare arrays?
32. How do you instantiate arrays?
33. Is an array an object?
34. What is the minimum index in an array?
35. What is the maximum index of an array?
36. What is a foreach loop used for? What is its syntax like?
37. Be able to write a foreach loop.