

Name/Student#

Analysis and Modeling of Software Systems

TC2004, Partial Exam#1

Tuesday, February 12, 2019

Total of 20 points. Have fun. Good luck

(1 point each question)

1. Name two life cycle models.
2. What does RUP stand for?
3. What programming language does our book use for examples?
4. In Smalltalk, what is the value of x after this assignment?  
 $x := 3 + 2 * 5.$
5. What is the version of Smalltalk that we are using in the class?

(2 points each question)

6. What is the difference between Analysis and Design?
7. Define Use Case.
8. What does it mean that Smalltalk is a pure object-oriented language?
9. What was the solution to “all the strings” in the Guitar example application?
10. Explain encapsulation.

(5 points each question below)

11. Design a class for the data structure Stack. Remember that Stack is a LIFO (last in, first out) data structure. Operations include at least pop, top, push, init. Write psuedo Smalltalk code for your implementation. Relax, I do not expect perfect Smalltalk code but a close approximation to show your practice in Smalltalk so far.