

## Question 1

[10 marks]

In the code below, clearly *circle and identify by number* one (and only one) example of each of the following. If you believe no example exists in the given code, write “*no example*” next to that item.

*Grading: 1 point for each correct answer.*

1. fully qualified class name
2. class body
3. class header
4. constructor header
5. (local) variable declaration
6. method call
7. Java reserved word (any one will do)
8. access control modifier
9. an expression which instantiates a class
10. an assignment statement

```
package lecture;
```

```
public class EcoSystem {  
    public EcoSystem() {  
        chapter1.Terrarium myTerrarium;  
        myTerrarium = new chapter1.Terrarium();  
        myTerrarium.add(new chapter1.Ant());  
    }  
}
```

## Question 2

[8 marks]

In each case, select the *all* correct answers from the choices given. For each question there is *at least* one correct answer, and there *may* be more than one correct answer.

*Grading: 1 point for each correct answer.*

(a) What is `null`?

**true**    **false**   It is an object reference which refers to no object.

**true**    **false**   It is a default object.

**true**    **false**   It is a reserved word in Java.

**true**    **false**   It is a variable which does not have a value.

(b) What is the *scope* of a variable?

**true**    **false**   It is the part of a program in which the variable can be used.

**true**    **false**   It is the period of time during execution of a program that the variable exists.

**true**    **false**   It is the range of values that the variable can hold.

**true**    **false**   It is value currently assigned to the variable.

SOLUTION #3 — 2.5%

Name (print, surname first): \_\_\_\_\_

Monday, September 23, 2007 [version 1 of 4]

Signature: \_\_\_\_\_

15 minutes

Person #: \_\_\_\_\_

 B1 (T@4) B2 (F@10) B3 (R@10) B4 (F@2)

**This assessment has 3 pages. Check that you have a complete paper.**

**Each candidate should be prepared to produce, upon request, his or her SUNY/UB card.**

<b>This examination has 2 questions. Answer all 2 questions.</b>
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- ▷ Write the following, in ink, in the space provided above,
  - ◇ your name, surname first,
  - ◇ your usual signature, and
  - ◇ your UB person number,
- ▷ All of your writing must be handed in. This booklet must not be torn or mutilated in any way, and must not be taken from the examination room.
- ▷ Show all of your work in arriving at an answer, unless instructed otherwise. Partial credit will be awarded as appropriate.
- ▷ Candidates are not permitted to ask questions of the invigilators, except in cases of supposed errors or ambiguities in examination questions.
- ▷ **CAUTION** — Candidates guilty of any of the following, or similar, dishonest practices shall be immediately dismissed from the examination and shall be liable to disciplinary action.
  - ◇ Making use of any books, papers or memoranda, calculators or computers, audio or visual cassette players, or other memory aid devices, other than those *explicitly authorised* by the examiners.
  - ◇ Speaking or communicating with other candidates.
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*Do not write below this line!*

Question	Points
1	/10
2	/8
TOTAL	/18