

CSE 8B
Winter 2006
Quiz #7
March 8, 2006

Name _____ ID _____

(12 pts.) 1. Circle all of the following that are true about the Model-View-Controller pattern:

- (a) The model is written to work only with one or two kinds of views. Adding a new kind of view always requires adding new code to the model. **False.** *The idea of MVC is you can add views or controllers without changing the model.*
- (b) A model can have at most one view associated with it. **False.**
- (c) A controller sends messages to the model causing it to change its state. **True**
- (d) Different kinds of views can be associated with a given model, all displaying information in different ways. **True** (*LunarLander is an example*)
- (e) The view must constantly query the model, seeing whether anything has changed. **False.** *The view doesn't need to constantly query the model; only when the model notifies of a change must it query.*
- (f) Each Swing JCheckbox has a model associated with it. **True**

(12 pts.) 2. Circle all of the following that are true:

- (a) Generic classes have a type parameter. **True**
- (b) An `ArrayList<Critic>` cannot store an `Ant` object. **False.** *It can store any subclass of `Critic`*
- (c) An `ArrayList<Critic>` cannot store a `String`. **True**
- (d) The following is legal: **False.** *Otherwise, you could add objects to `al`*
`ArrayList<Object> al = new ArrayList<String>;`
- (e) The following is legal: **False.** *Otherwise, you could retrieve a non-String from `as`*
`ArrayList<String> as = new ArrayList<Object>;`
- (f) Declaring `al` of type `ArrayList<Critic>` tells the compiler that `al` will only store `Critters` or some subclass. **True**