Herramientas Avanzadas para el Desarrollo de Aplicaciones march 2012

- The exam has a duration of 30 minutes.
- All the questions have one (and only one) valid answer.
- Two wrong answers cancel a right one.
- It is preferable that you use a pencil instead of a pen.
- You have to deliver this sheet to the professor once you are finished.
- Modality: English

Name:		

- 1. In Vala the namespaces can be created like this:
 - A. Namespaces...? What is that?.
 - B. using namespace name;
 - C. namespace name $\{\ldots\}$.
 - D. None of above.
- 2. In Vala the class ArrayList<T> belongs to ...
 - A. The language, it is a basic data type.
 - B. To nothing. that class does not exist.
 - C. to an external library.
 - D. None of above.
- 3. In Vala the clause ${\tt requires}$ represents:
 - A. An exception.
 - B. A postcondition.
 - C. A precondition.
 - D. None of above.
- 4. Git is a control version system:
 - A. Centralized.
 - B. Distributed.
 - C. Centralized in some cases, distributed in others.
 - D. None of above.

- 5. The commit operation of Git:
 - A. Transfers the data from the local repository to its master copy.
 - B. Transfers the changes done in the work copy to the local repository.
 - C. Transfers the changes done in the work copy to a remote repository.
 - D. Clones repositories.
- 6. The branch operation of Git:
 - A. Is the only one we can use for creating branches.
 - B. Is the only one we can use for switching from one branch to another.
 - C. Is the only one we can use for renaming a branch.
 - D. None of above.
- 7. A signal:
 - A. Can only have connected one handler.
 - B. Can only be connected to methods of a class.
 - C. Can have connected several handlers.
 - D. None of above.
- 8. The signature of a handler connected to signal:
 - A. Is delimited by the signature of the signal.
 - B. Is not delimited by the signature of the signal.
 - C. It depends if the class to which it belongs is inside a namespace.
 - D. None of above.
- 9. A signal with public visibility:
 - A. We can only connect it to public handlers.
 - B. We can only connect it to independent functions from any class.
 - C. We can connect to it any handler independently of its visibility.
 - D. None of above.
- 10. In Vala in order that the mechanism of signals/handlers work:
 - A. We do not have to do anything, the language provides it.

- B. We have to derive from the GLib.Object class.
- C. We have to compile the code with an special option.
- D. We have to derive from the Gtk. Object class.
- 11. In Vala a λ function can act as a handler...
 - A. Never.
 - B. Always.
 - C. When its parameter list coincides with the ones of the signal.
 - D. When it has no parameters.
- 12. In Vala a signal...
 - A. Can never have an implementation.
 - B. Can always have an implementation.
 - C. can only have an implementation when it is declared as virtual.
 - D. None of above.
- 13. The Gtk+ library...
 - A. Implements its signals/handlers technology.
 - B. Takes profit of the signals/handlers technology from GLib/GObject.
 - C. Does not use the concept of signals/handlers.
 - D. None of above.
- 14. In order to be able to use the Gtk+ library in Vala...
 - A. We have to call the compiler with the option "--pkg gtk+-2.0".
 - B. We do not need any special compilation option.
 - C. We have to call the compiler with the option "--pkg gmodule -2.0".
 - D. It is necessary building previously the graphic interface of the application using glade.
- 15. The user interfaces generated by glade...
 - A. Are stored in binary files.
 - B. Are stored as Vala source code.
 - C. Constitute the only way of doting of graphic interface to an application that uses Gtk+.
 - D. Are text files with XML format.