Instructions: *(Same as usual, you have **10 minutes**.)* In the following, *select all that applies*.

____ **/ 2 pts.**   **Question 1** An abstract class…

- ☐ … can be instantiated.
- ☐ … can contain a constructor.
- ☐ … can contain abstract and non-abstract methods.
- ☐ … is represented in a UML diagram by prefixing its name with «Abstract».

____ **/ 2 pts.**   **Question 2** In a UML diagram, an abstract method is …

- ☐ … underlined.
- ☐ … impossible to distinguish from a non-abstract method.
- ☐ … necessarily part of an abstract class.
- ☐ … in italics.

____ **/ 2 pts.**   **Question 3** A class `Student` inheriting from an abstract class `Person` …

- ☐ … must override all of `Person`'s methods.
- ☐ … must implement all the methods marked **abstract** in `Student`.
- ☐ … can be instantiated.
- ☐ … is connected to `Person` using an open triangle end and a continuous line (⇤−) on the UML diagram.
- ☐ … is connected to `Person` using an open triangle end and a dashed line (◁---) on the UML diagram.

____ **/ 4 pts.**   **Question 4** Briefly explain the difference between an abstract class and an interface.