

Q4

* Required

1. Surname and Name and ID *

.....

2. Which of the following combinations is correct if you want to run the method read() once before the method testView() and once before the method testSelect()?

Mark only one oval.

- @BeforeClass read() @test testView() @test testSelect()
- @BeforeClass read() testView() testSelect()
- @Before read() @test testView() @test testSelect()
- @Before read() @test testView() testSelect()

3. What is the halting problem? Given any program P and any input I it is not decidable if

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- P will eventually halt when it runs with I or run forever
- P will eventually execute when run with I or throw an exception when it runs with that input
- P will eventually re-throw an exception when it runs with I
- P will eventually throw an exception when it runs with that input

4. What of the following is not strictly about verification but requires validation?

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- A word processor saves text when you click save
- A word processor saves into a file when you click save
- A word processor saves text into a .txt file when you click save
- A word processor prints a text when you click save

5. What this code does?

```
TransformerFactory transformerFactory = TransformerFactory.newInstance();
```

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- Create a Factory class that will build a builder that in turn creates a txt document
- Create a Factory class that will build a builder that in turn creates an XML document
- Create a Factory class that will build a builder that in turn creates a java document
- Create a Factory class that will build a builder that in turn creates a DOM document

6. Which one is true?

To have the compiler checking an exception class,

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- you need to throw it from the body of a method
- you need to throw it from a try block
- you need to use "throw" in the signature of a method
- none of the above statements

7. What is the dynamic enclosing scope (DES) of a statement?

hint: it has always to be true

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- The piece of memory on the stack of the block that contains it
- The piece of memory on the heap of the block that contains it
- The AR of the main method
- The AR of any method

8. Which one is false?

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- The catch of the child exception is never reached if it comes before the catch of the parent exception
- There can exist a try block with no catch
- Throwable is the parent class of all the exceptions
- To use try-with-resources the resources classes must implement closeable (I)

9. What does it mean matching an exception?

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- Throwing an object from a try block
- The compiler checks the type in the signature of a method
- It is another way to say precision re-throwing
- Referencing the exception object from the reference variable of the corresponding type

10. **How do you get the information about where an exception has been thrown and not caught?**

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- From the compiler
- From the stack trace
- From the verifier of the JRE
- From Scanner.getInfo()

11. **How would you best test the functionality "selectExam"?**

The input is ArrayList<Exam> list; describe the object

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- With an empty list
- With an empty list, a list of objects of type Exam that have not been selected, and a list objects of type Exam that have been already selected
- With an empty list and a list with a combination of objects of type Exam that have already been selected and those have not been selected
- All the choices above