Maven: is a project management and comprehension tool, provides developers a complete build lifecycle framework.

Benefits of polymorphism: code more reusable, code more dynamic.

The object reference can be used to polymorphically store any class in Java. True

Singleton pattern involves a single class which is responsible to create an object while making sure that only single object gets created.

Design patterns: are solutions to general problems that software developers faced during software development.

String pool: a location in memory where strings referenced as literals in an application are stored.

When a method is called, this new state of the application is added to the stack.

#### When a new object is declared, this new object is stored in the heap

#### A StackOverflowError could be caused by calling excessive amounts of methods in a recursive function.

#### An OutOfMemoryError could be caused by creating excessive amounts of objects that stay in scope.

#### A recursive method is a method which a function which calls itself as part of its behavior.

#### Recursive functions are often used when presented with problems which

#### Can be broken into subproblems solvable with the same logic.

#### Failing to provide a reliable base case to a recursive function may result in

#### StackOverflowError being thrown.

#### Which of the following statements are correct about Java 8 lambda expression?

#### Lambda expressions are used to define inline implementation of a functional interface, it eliminates the need of anonymous class and gives a very simple yet powerful functional programming capability to Java.

#### Ex: (int a, int b) -> a+b; or (a,b) ->a+b

#### The transient keyword is used to enable serialization of variables.

#### False

#### Java Exceptions is a mechanism

#### That you can use to determine what to do when something unexpected happens.

#### For logging unexpected behavior.

#### Can you catch an Error? Yes, and you should – Errors can be dangerous if not handled

#### Checked exceptions are meant for exceptional conditions external to an application that a well written application should anticipate and from which it can recover.

#### Which of the following is correct about a Unit Test Case?

#### Is part of code which ensures that the another part of code works as expected.

#### a formal written unit test case is characterized by a known input and by an expected output, which is worked out before the test is executed.

#### The known input should test a precondition and the expected output should test a postcondition.

#### Which of the following is correct about Test Suite in JUnit?

#### Test suite means bundle a few unit test cases and run it together.

#### @RunWith and @Suite annotation are used to run the suite test.

#### TestCase contains a test case and defines the fixture to run multiple tests.

#### True

#### In a switch statement the 'default' keyword is used to define a default case which will always execute if reached.

#### In a switch statement the 'break' keyword is used to end code execution within the switch statement.

#### A Hashtable extends Set to store key/value pairs False

#### What invokes a thread's run() method? JVM invokes the thread’s run method when the thread is initially executed.

#### 