**1.Why testing is required?**

Testing is required for an effective performance of software application or product. It's important to ensure that the application should not result into any failures because it can be very expensive in the future or in the later stages of the development. Hence testing is required to reduce the loss occurring in software industry.

**2.What types of application we test?**

Mobile Applications

Web Applications

Desktop Applications

Enterprise Applications.

**3.** **What is SDLC and different phases in SDLC?**

SDLC is a process followed for a software project, within a software organization. It consists of a detailed plan describing how to develop, maintain, replace and alter or enhance specific software. The life cycle defines a methodology for improving the quality of software and the overall development process. There are 6 phases in SDLC

1. Planning and Requirement Analysis
2. Defining Requirements
3. Designing the product architecture
4. Building or Developing the product.
5. Testing the product
6. Deployment and maintenance.

**4.what is database?**

Database is collection of information or data that is organized so that it can be easily accessed, managed and updated. It is also defined as a collection of rows and tables.

**5.what is table, row, column?**

A table has a specified number of columns, but can have any number of rows. a row also called a record or tuple which represents a single, implicitly structured data item in a table.

 A column is a set of data values of a particular simple type, one for each row of the table.

**6.what are limitations in selenium web driver?**

It does not support and non-web-based applications, it only supports web based applications.

Its an open source tool so in case of any technical issues you need to rely on the selenium community forums to get your issue resolved. No inbuilt reporting capability so you need plugins like JUnit and TestNG for test reports.

7.installing or configuring selenium?

Go to www.seleniumhq.org website download selenium standalone server jar files. Since it is a firefox addon seleniumIDE is added to firefox tools bar. Selenium jar files are configured to eclipse first right click on project name—go to properties—click on java build path—add external jar files and upload selenium stand alone server—click ok—click apply and then ok.

8.Different types of locators in selenium?

There are different types of locators. Locating by id,name,link,hyper link,css selector,xpath.

For example consider indeedjobs website. To locate what element first we have to inspect the element using firebug find id,name,xpath etc., then write the syntax as required.

driver.findElement(By.id(“what”)).sendKeys(“selenium”);

9. what is the fastest way to identify elements in a page?

The fastest way is to download firebug which is used to inspect element in the firefox browser. Locating by id is the fastest method.

10.what are absolute path and relative paths in xpath?

Location path specifies the location of node in XML document. This path can be absolute or relative. If location path starts with root node or with '/' then it is an absolute path. If location path starts with the node that we've selected then it is a relative path.

11.JUNIT: practiced program

package junit;

import static org.junit.Assert.\*;

import org.junit.After;

import org.junit.AfterClass;

import org.junit.Before;

import org.junit.BeforeClass;

import org.junit.Ignore;

import org.junit.Test;

public class junittestcase {

@BeforeClass

public static void deployAndConfigureSite()

{

System.out.println("in deployAndConfigureSite method");

}

@AfterClass

public static void cleanUp()

{

System.out.println("in cleanUp method");

}

@Before

public void testPreSetup()

{

System.out.println("in presetup method");

}

@Test

public void testHomePage()

{

System.out.println("in testHomePage method");

//assertEquals("error:title is wrong","my site title","my site title");

//assertTrue("error:title is wrong","my site title".equals("my site title"));

if(!("my site title".equals("my site title")))

{

fail("error:title is wrong");

}

}

@Ignore

@Test

public void testLoginPage()

{

System.out.println("in testLoginPage method");

}

@Test

public void testMyaccountPage()

{

System.out.println("in testMyaccountPage method");

}

@After

public void testPostSetup()

{

System.out.println("in postsetup method");

}

}