1) Selenium, Different types about Selenium WebDriver.

Selenium: It is an open source tool that is used to automating the tests out on web browsers.

Components:
1) Selenium IDE
11) Selenium RC
111) Selenium WebDriver
1v) Selenium Grid

Selenium WebDriver :-

It is a collection of open source API's which is used to automate the testing of a web application. It supports browsers like Chrome, Safari, Firefox.

2) How selenium communicate with Web Browser?

To communicate b/w drivers, and client (Browser), Selenium webdrive uses JSON, JSON wire protocol is a REST API. that transfers the info. b/w HTTP servers. Each browser driver has its own HTTP server.

3) Locators available to find an element:

- Id locator (By id)
- Name locator (By. Name)
- Link Text,
- Partial Link Text
- Tagname
- xpath
- css selector.

4) Why ID is preferrable than xpath?

* ID is preferrable, because, it is the unique identifier for the element and it doesn't change.

* All browsers also have highly efficient methods to get an object on the page using their ID's. This makes iD locator the faster types of locators in selenium.

b) Difference b/w absolute path and relative path.

    Absolute path contains the full path from the root of the file system, (or) directly it points to. A relative path contains the path of the file as directory relative to some other path.

7) How to verify if the given checkbox is checked or not

    We can use isSelected() method over the checkbox element. It returns a boolean value for true if it is checked and false, if it is unchecked.

8) Syntax for preceeding and succeeding xpaths

    Following
    Preceeding: //p [@id='test']/ following:; button
    Preceeding; //p [@id='sam']/ succeeding :: button.

9) System. setProperty

    It is used to set the path of the driver for the respective browser.

WebDriver Manager:-

    If we set the corresponding executable path explicitly, after that we can use the driver instance.

10) How to get an attribute value using Selenium Webdriver.

    We can achieve it by using getAttribute() method. It returns the value passed as the parameter.