***UFT Assignment Questions***

### **1. Introduction to UFT:**

* **Q1:** What is UFT (Unified Functional Testing)? How is it different from other test automation tools like Selenium or QTP?
* **Q2:** List the key features of UFT. Explain how it supports functional, regression, and GUI testing.
* **Q3:** What are the different types of objects that UFT can recognize? Give examples of each type.

### **2. Creating and Running a Basic Test in UFT:**

* **Q4:** Create a simple test in UFT to open the Notepad application, type a text message, and save the file. Include the steps to record and run the test.
* **Q5:** Write a simple UFT script to open a web browser, navigate to a website (e.g., www.google.com), and perform a Google search.

### **3. Object Repository and Object Identification:**

* **Q6:** What is an object repository in UFT? Explain the difference between "Local Object Repository" and "Shared Object Repository."
* **Q7:** Explain the concept of "Object Identification" in UFT. How does UFT recognize objects on the application being tested?

### **4. Checkpoints and Verification:**

* **Q10:** What are checkpoints in UFT? Write a script to add a "Text Checkpoint" to verify that a specific text appears on a web page.
* **Q11:** Explain the difference between "Standard Checkpoints" and "Database Checkpoints" in UFT. Give an example of when you would use each.
* **Q12:** How can you handle dynamic objects using UFT? Explain with an example of handling dynamic buttons that change text based on user interactions.

### **5. Parameterization:**

* **Q13:** What is parameterization in UFT? Why is it important for automating tests? Demonstrate how to parameterize a test using input data (e.g., user credentials for a login page).
* **Q14:** Create a test that accepts input parameters (e.g., username and password) from an Excel file and performs a login using that data.
* **Q15:** What are the different types of parameters available in UFT (e.g., test, action, and data table parameters)? Explain their use with examples.

### **6. Actions and Function Libraries:**

* **Q16:** What is an action in UFT? How does it help in organizing your test scripts? Create an example of a reusable action for logging into a web application.
* **Q17:** Explain the concept of "Function Libraries" in UFT. How do you create and associate a function library with your test?
* **Q18:** Write a simple function in a UFT function library that accepts two numbers as inputs and returns their sum. Call this function from your test script.

### **7. Descriptive Programming:**

* **Q19:** What is Descriptive Programming in UFT, and when would you use it? Write a UFT script using descriptive programming to click a button on a webpage (e.g., a "Submit" button).
* **Q20:** Explain the syntax for Descriptive Programming in UFT. Write a script that uses descriptive programming to interact with a web element based on its properties (e.g., link text, tagname, etc.).
* **Q21:** How does UFT handle dynamic objects with Descriptive Programming? Provide an example using a dynamic link or button.

### **8. Synchronization and Wait Statements:**

* **Q22:** Why is synchronization important in UFT? What are the different synchronization techniques you can use to make sure your script waits for an element to be available?
* **Q23:** Write a script that uses the Sync method and Wait method to ensure UFT waits for a page to load before performing actions like clicking a button.
* **Q24:** How would you handle synchronization issues when testing a slow application or a page with dynamic content?

### **9. Error Handling and Recovery:**

* **Q25:** How can you add exception handling in UFT to handle pop-ups or alerts that appear unexpectedly during the test execution?

### **10. Test Results and Reporting:**

* **Q26:** Explain how UFT generates test results. How do you view and analyze the test results after running a test in UFT?
* **Q27:** What is the difference between the "Test Results" tab and the "Run-Time Data Table" in UFT? How would you use them to debug a failing test?
* **Q28:** Write a script that generates a custom report in UFT after executing a test case. This report should include test steps, status (pass/fail), and any relevant messages.