SDET Final Mock Question List

Java Basic

- 1. What is Optional, how do you use it?
- 2. What is a default method in an interface?
- 3. Difference between default and static methods in interfaces?
- 4. Can you have default and static methods in functional interfaces?
- 5. Please talk about Java 8 features.
- 6. What is a String pool?
- 7. What will happen when you use 'new' to create a String in Java?
- 8. What is the difference between ArrayList and LinkedList?
- 9. In what scenario do you want to use LinkedList and when do you want to use ArrayList?
- 10. What is an immutable class?
- 11. How do you make an immutable class?
- 12.What is the difference between == vs .equals()?
- 13.Can we only override the equals() method or only override hashcode() methods, why?
- 14.In HashMap what will happen if you just override hashcode() method without overriding equals() method of the key?
- 15.In HashMap what will happen if you just override equals() method without overriding hashcode() method of the key?
- 16. What is the difference between HashSet and TreeSet?
- 17. What is LinkedHashMap? In what scenario do you want to use it?
- 18.If you have an exception, how do you handle your exception?
- 19. How does HashMap implement the put() method?
- 20.If a HashMap has 16 buckets, how do you convert a large number to the bucket index?
- 21. What is polymorphism? How does Java implement polymorphism?

- 22. Why is Java not a pure OOP Language?
- 23. What collections have you used? What are the differences between them?
- 24. What is serialization in Java? How can we serialize and deserialize an object?
- 25. What are the differences between protected, private and default access modifiers in Java?
- 26. What is a Marker interface in Java?
- 27. What is the difference between static and non-static variables in Java?
- 28. What is the usage of the "final" keyword on a variable, method and a class?
- 29. When do we use interfaces and when do we use abstract class?
- 30. What is a Functional Interface?
- 31.Can you name some functional interfaces in Java and their usage?
- 32.Can we customize an exception?
- 33. How do you sort a collection of objects using customized orderings?
- 34. What is the difference between deep and shallow copy?

JUnit

- 1. Which version of JUnit are you using?
- 2. What is the difference between JUnit 4 and JUnit 5?
- 3. Can you explain the three components of JUnit5 and explain about their responsibilities?
- 4. What is DDT (Data Driven Testing) and why do we need it?
- 5. In JUnit 5, what is the execution order of test methods inside a test class by default?
- 6. In JUnit 5, how do you specify the execution order of test methods within a test class?
- 7. What is test case isolation and how does JUnit 5 perform test case isolation?
- 8. In JUnit 5, which methods must be declared as static by default?
- 9. In JUnit 5, what is the default lifecycle of a test instance?
- 10.In JUnit 5, what will happen if one assertion fails? Will the remaining assertions in

the same test method still be executed?

- 11. In JUnit 5, how to guarantee that all the assertions are executed regardless of assertions results
- 12.What is the difference between assertTimeout() and assertTimeoutPreemptively() methods in JUnit 5?
- 13. What is race condition and how to prevent it during parallel testing?

TestNG

- 1. Explain the hierarchy of a TestNG Suite
- 2. Can you tell me all the lifecycle annotations in TestNG?
- 3. Why do we need grouping in TestNG and how do you assign groups in TestNG?
- 4. Can I assign multiple groups to test methods?
- 5. What is dependency in TestNG?
- 6. What is the difference between dependency and priority in TestNG?
- 7. How to ignore all the test methods in a specified package.
- 8. What are listeners in TestNG?
- 9. Can you give me an example of using Listeners in UI Testing?
- 10.In TestNG, how to run the dataset provided by DataProvider in parallel?
- 11. Explain the difference between a test Level group and a suite level group in the TestNG.xml file?
- 12. How do you handle exceptions in TestNG? Explain at least two ways except for "try/catch block".
- 13. How do you generate a HTML report in TestNG?
- 14. How do you print messages in the HTML report?

Selenium WebDriver

- 1. What is Selenium WebDriver?
- 2. What should I do if I want to switch my browser from Chrome to Firefox during a UI Testing using Selenium WebDriver?

- 3. What is the difference between get() and navigate().to() in Selenium WebDriver?
- 4. What is implicit waiting in Selenium WebDriver? Why do we need this? 5. Can you explain different kinds of locators in WebDriver?
- 6. How do you select a specific option in a dropdown selectors using Selenium WebDriver? (At least two ways)
- 7. How do you handle an alert window that has cancel, accept and input text boxes?
- 8. How do you switch between different windows or tabs in Selenium WebDriver?
- 9. How do you upload a file using a file upload button in WebDriver?
- 10.In Selenium WebDriver, how do you store elements of a web table into a 2D array?
- 11. In Selenium, how do you perform drag and drop operations?
- 12. What is Actions class in Selenium? Tell me about some actions you can perform in Selenium.
- 13. How do you scroll up and down the webpages in Selenium?
- 14. Why can we convert an instance of class "WebDriver" to the class of "JavascriptExecutor"?
- 15.Can you explain different kinds of Waits in Selenium WebDriver?
- 16. How do you run your Selenium WebDriver code in a testing environment without Graphic Interfaces?
- 17. What are dynamic web elements and how do you handle dynamic web elements in Selenium WebDriver?
- 18.Can you explain necessary maven dependencies in a UI Testing framework?
- 19. Can you explain the process of building a UI Testing framework?
- 20. How to write a feature file using cucumber, can you give me an example?
- 21. What is Page Object Modeling?
- 22. How to initialize all the web elements in a page object model annotated with @FindBy?
- 23. Tell me about the four OOP principles you applied in your UI Testing framework.

24. Tell me about the design patterns you applied in your UI Testing framework

Cucumber

- 1. What is BDD (Behavior Driven Testing) and why is it so important?
- 2. How do you run all the testing scenarios in parallel using TestNG and Cucumber?

Testing Types & STLC

- 1. What is Functional Testing and Non-functional testing?
- 2. Can you tell me some types of functional and non-functional testing?
- 4. What is Scalability in web application development and how do you test it?
- 5. What is the V Model in Testing?
- 6. What is STLC and can you explain every stage of STLC?
- 7. What is Verification and Validation?
- 8. What is the difference between static and dynamic testing?
- 9. How do you perform static and dynamic testing?
- 10. What is RTM and why do we use it?
- 11. What is smoke, sanity and regression testing?
- 12. Can you tell me the difference between smoke, sanity and regression testing?
- 13. What is the defect life cycle?
- 14. What is the difference between severity and priority of a defect?
- 15. What is CI/CD pipeline and can you give me an example?
- 16. Where do you store the secrets of your application during the runtime?

Rest Assured

- 1. What is the purpose of given() and when() methods in Rest Assured?
- 2. How do you construct your request body in Rest Assured?

- 3. What are query and path parameters and how do you configure them in Rest Assured?
- 4. How does Rest Assured perform Serialization and Deserialization?
- 5. How do you extract partial information from the response body in Rest Assured?
- 6. How do you upload and download a file in Rest Assured?
- 7. Tell me about some common authentication and authorization methods you are familiar with.
- 8. What is Cookie, Session and Token?
- 9. Can you explain about the workflow of session based authentication?
- 10.Can you explain about the workflow of token based authentication?
- 11. Can you explain about the workflow of OAuth 2.0?
- 12.In Rest Assured, how do you reuse the common configurations of request headers and response assertions?
- 13.In Rest Assured, how do you manage your API endpoints? (RequestSpecification, Enum, yaml)
- 14. How do you validate the structure of a json response?
- 15.If you are running a scenario outline in parallel and there's api chaining in every scenario, how do you keep your transferred property thread safe?

RESTful API & SOAP Web Services

- 1. What is idempotency from a RESTful service endpoint?
- 2. What is the difference between HTTP PUT and POST method?
- 3. What are commonly used status codes?
- 4. What is the difference between 401 and 403 error?
- 5. What is the difference between Authentication and Authorization?
- 6. Explain the process of using JWT token for authentication.
- 7. What is API chaining? Can you give me an example?

Scrum

- 1. What are the different roles in Scrum and explain the responsibilities of different roles in the scrum?
- 2. What is Product Backlog & Sprint Backlog?
- 3. What is a Sprint? Can you explain the activities that occur during a Sprint.
- 4. What is a backlog grooming/sprint planning meeting?
- 5. What is velocity in Scrum?

Appium

- 1. What is Appium and what is the difference between Appium and Selenium?
- 2. Can you explain the architecture of the Appium framework?
- 3. What is the difference between Native, Hybrid and Mobile Web Applications?

 Can we perform UI testing using Appliam?
- 4. What's the name for the corresponding automation driver if we want to execute our testing scripts on Android, iOS, Windows and MacOS platforms?
- 5. Can you give some examples of the locators we use in Appium?

- 6. If you have a dropdown list on an Android device, how do you scroll to a specific option?
- 7. If you have a dropdown list (pickerwheel) on an iOS device, how do you automatically scroll to a specific option?
- 8. How do you perform drag and drop / long press / swipe and scrolling using W3C Actions API?
- 9 How do you interact with web elements in a hybrid mobile application?
- 10. What's the advantage of using cloud devices to perform automation testing?
- 11. How do you perform automation tests on a cloud platform like Sauce Labs?
- 12. What is the desired capability and what are the necessary desired capabilities for

connecting to iOS and Android Devices?

Database Testing

- 1. What are different types of Database Testing?
- 2. How do you perform schema testing?
- 3. How do you test a stored procedure?
- 4. Can you test a stored function directly? If not, how do you test a stored function?
 - 5. What's the difference between stored procedure and stored function?
- 6. What is a trigger and how do you test a trigger?
 - 7. What is Data Mapping Testing?
 - 8. What is Data Integrity Testing? And how do you perform Data Integrity Testing?