Your Trusted Testing and DevOps Partner

Logical Thinking and SDET

Subject: Frugal Testing SDET Rounds

Welcome to the Frugal Testing SDET rounds. In this exam, you will find two sections:

Section A: A series of 2 questions out of which you have to attempt ONLY ONE. The single question bears 20 points.

Section B: A series of 19 questions each bearing 5 points for a total of 95 points. Question Number 21 does not carry any marks however is compulsory.

General Instructions:

Also, follow the instructions on how to save and share the test code.

1. It has been assumed that automation testing is a totally new practice for the person attempting this exercise.

2. It is recommended that all answers are precise and at least 100 words long.

3. Please do not take help from others, but rather use the internet freely while doing this homework as the same will be discussed in detail in the interview.

4. There should not be any plagiarism.

Prerequisites for Section A:

1. Download and install the Java Software Development Kit (JDK)

2. Install Eclipse/IntelliJ IDE

3. Download the Selenium Java Client Driver

4. Configure Eclipse/IntelliJ IDE with WebDriver

The closure date **for this homework is** **<< 32 Hours >>.** For any queries/help, kindly get in contact with your placement coordinator for any specific query.

Please note: The final response file should be saved as "Zip file" that should contain:

● For Section A:

o Screen recording video file of the complete execution from displaying the written code, running the complete test suite from first test case till the last followed by showing the saved screenshots and logs in a folder from the test run.

o Exported project file from IDE.

● For Section B: A word file containing all 21 answers.

Zip file should be submitted in the following format:

<Name_of_Candidate>_<College Name>_<Roll Number>

Please submit the file to your placement cell officer.

Section A:

*Attempt **any one** question as per your choice from 2 questions below:*

Preferred IDE to be used - Eclipse or IntelliJ

Automation tool to be used – Selenium

1. Automate the functionality to book the train from https://www.makemytrip.com/railways/

   Check if you have landed in the correct page

   Print the URL and Title of the Page

   Click on FROM

   Enter the city in FROM: DELHI

   Click on TO

   Enter the city in TO: LUCKNOW

   Click on Travel Date

   Select a date: 20 May

   Click on class.

   Select a class from dropdown: Third AC.

   Click on SEARCH Button.

   Record the Automation Script Running using any Screen Recording Software.

   Share the drive link for the recording.

   Save screenshots and logs of all the steps.

   Share the link of the main code file in PDF form.

<div align="center">**OR**</div>

2. Automate the functionality door to door delivery   https://www.trukky.com/door-to-door-goods-delivery

   Check if you have landed in the correct page

   Print the URL and Title of the Page

   Enter the Pickup City-Hyderabad

   Select the city Hyderabad, Telangana, India from dropdown

   Enter the drop city-Delhi

   Select the city New Delhi, Delhi, India from dropdown

   Click on Check Price

   Click on services type as a personal

Select load service as Few packed items (1 - 5)

Click on Add material

Select a material from choose material dropdown-Window AC

Enter no items-2

Click on forward button("->").

Click on next button

Select a date from Choose pickup date-28 April

Click on next

Enter email, number and company name

Click on get Price Button

Record the Automation Script Running using any Screen Recording Software

Share the drive link for the recording.

Save screenshots and logs of all the steps.

Share the link of the main code file in PDF form.

Section B:

*All questions below are **mandatory** to answer.*

3. Visit through the website of Frugal Testing:

    a. What pages did you find crucial and why?

    b. Tell us which of our case studies you find as most valuable and Why?

4. Reasons for your interest in this internship and what skills or experiences do you hope to gain?

5. Tell us about a situation where you had to work under pressure?

6. What are your strengths and areas of improvement? Elucidate two examples of each and how do you plan to work on your areas of improvement?

7. According to you, what is the importance of the work environment and what environment do you prefer to work in? How would you add value to our organization?

8. What is your vision about life and professional career after 5 years?

9. What is the impact of semiconductor chip shortage across the global economy?

10. Please share the following details in your Profile :

    a. LinkedIn Profile Link

    b. Resume (PDF file)

    c. Any other Technical profiles like Hackerrank, CodeChef, Github, HackerEarth?

    d. Any other Project links about which you are really proud of

11. Visit and follow the Frugal Testing page on all the social media platforms. Like/Share the posts and also share your views on the posts in the comment section.

    - **You have to share the screenshot in the answer sheet as proof for this task.**

    a. LinkedIn : https://www.linkedin.com/company/frugaltesting/mycompany/

    b. FaceBook : https://www.facebook.com/FrugalTest

    c. Instagram : https://instagram.com/frugaltesting?igshid=YmMyMTA2M2Y=

    d. YouTube : https://www.youtube.com/channel/UCjikgYGfeqU4ZPKQNm1V5tg/featured

    e. GooglePage : https://frugaltesting.com/

12. What do you understand by test closure?

13. What is monkey testing?

14. How do we create an Amazon EC2 instance?

15. Explain the PDCA cycle?

16. Share a pseudo-code to find duplicate characters in the string. Example: INPUT: "**Welcome to Frugal Testing**", OUTPUT: "**eltg**".

17. Is Automation Testing A Complete Replacement For Manual Software Testing? What is your view on this?

18. Give some examples of web applications that are used in day-to-day life? How will you improve their performance, please elaborate?

19. Please write an article on any ONE of the below topics
    (500-1500 words, no plagiarism, better to use some graphics)

    A. Agile and DevOps

    B. Mobile application testing

    C. Chaos engineering

    D. Top 10 chrome extensions to find Xpath in Selenium

    E. What is load average in top command in Linux?

    F. What is exploratory testing and its pros and cons?

    G. Best performance testing tools to look out for in 2021

    H. Cybersecurity for cloud applications

    I. What is a Zero-day attack?

    J. What, Why, and How of API penetration testing?

    K. What are the 7 steps in software testing life cycle?

    Your article will be evaluated on following parameters:

    a. Genuine Effort to write article

    b. No Plagiarism

    c. Overall Tone and Tonality of the article

    d. Overall Outline

    e. Clear and terse

20. Share a video recording link of yourself, explaining your specific characteristics that make you believe you are well-suited for this role. (Duration Limit - 2 mins)

21. **The following questions have no right or wrong answer. It is a basic measure to judge your personality. Please exhibit integrity while answering the following. You need to choose only one option.**

A: You are totally exhausted because your week was endless and less than great. How are you going to spend your weekend? Answer: _____

   i.) I'll call my friends to ask about their plans. I heard that a new restaurant opened / a nice comedy is playing in the cinemas / there are big discounts at the paintball club. We should all go out together.
   ii.) I'll switch on the "Don't disturb" mode on my phone and stay at home. I'll watch a new episode of my favourite TV show, do a puzzle, and take a long bath with a book.

B: Which of these 2 descriptions suits you more? Answer: _____
   i.) The most important thing for me is what's happening here and now. I assess real situations and pay attention to details.
   ii.) Facts are boring. I love to dream and play over upcoming events in my mind. I rely more on intuition than information.

C: A competitor of your current employer is trying to entice you. You have doubts because the salary is much higher there, but the staff here is great. Moreover, the head of your department hinted that he will recommend you to the bosses when he retires. How are you going to make a decision? Answer: _____

   i.) I'll continue with the same job as long as the manager retires by weighing up all the options.
   ii.) I'll shift to my competitor because the remuneration is higher as compared to the current position.

D: Only 2 weeks are left before your close friends' wedding. How are the preparations going?
Answer: _____

   i.) One month ago, I chose the saxophonist who will play a medley of our school songs / collected the couple's photo love story / composed a poem / pressed my suit / made appointments with the stylist and makeup master. I prefer to be fully armed.
   ii.) Why prepare? I'll be having fun and enjoying myself at the party. I'll improvise my wedding speech. The best things happen spontaneously.