a. List the average response time from each website in ascending order

gibiru.com –  
Total average response time is 721ms using load profile 1  
Total average response time is 700ms using load profile 2  
Total average response time is 620ms using load profile 3

duckduckgo.com –  
Total average response time is 208ms using load profile 1  
Total average response time is 211ms using load profile 2  
Total average response time is 210ms using load profile 3

mojeek.com –  
Total average response time is 306ms using load profile 1  
Total average response time is 238ms using load profile 2  
Total average response time is 226ms using load profile 3

b. For each website, how many samples were generated?

gibiru.com –  
150 samples were generated using load profile 1  
300 samples were generated using load profile 2  
450 samples were generated using load profile 3

duckduckgo.com –  
809 samples were generated using load profile 1  
1665 samples were generated using load profile 2  
2496 samples were generated using load profile 3

mojeek.com –  
108 samples were generated using load profile 1  
208 samples were generated using load profile 2  
304 samples were generated using load profile 3

c. What is the percentage of requests with errors?

gibiru.com –  
100% total successful requests with 0.00% total error using load profile 1  
100% total successful requests with 0.00% total error using load profile 2  
100% total successful requests with 0.00% total error using load profile 3

Duckduckgo.com –  
99.75% total successful requests with 0.25% total error using load profile 1  
99.82% total successful requests with 0.18% total error using load profile 2  
99.84% total successful requests with 0.16% total error using load profile 3

mojeek.com –  
61.11% total successful requests with 38.89% total error using load profile 1  
54.81% total successful requests with 45.19% total error using load profile 2  
51.97% total successful requests with 48.03% total error using load profile 3

d. Plot a chart with the average response time of each website using different profiles and discuss the results.

Here is a chart displaying the average response time of each website using different load profiles:

| **Search Engines** | **Load Profile 1** | **Load Profile 2** | **Load Profile 3** |
| --- | --- | --- | --- |
| gibiru.com | 721ms | 700ms | 620ms |
| duckduckgo.com | 208ms | 211ms | 210ms |
| mojeek.com | 306ms | 238ms | 226ms |

From the chart, we can see that gibiru.com has the longest average response time among the three websites for all load profiles, with an average of 721ms for load profile 1, 700ms for load profile 2, and 620ms for load profile 3. On the other hand, duckduckgo.com has the shortest average response time, with an average of 208ms for load profile 1, 211ms for load profile 2, and 210ms for load profile 3.

For mojeek.com, the average response time varies depending on the load profile. It has the longest average response time among the three websites for load profile 1, with an average of 306ms. However, for load profiles 2 and 3, mojeek.com has a shorter average response time than gibiru.com, with an average of 238ms and 226ms, respectively.

Overall, these results suggest that gibiru.com may have some performance issues that need to be addressed, while duckduckgo.com seems to be performing well. Mojeek.com's performance varies depending on the load profile, which suggests that its infrastructure may not be optimized for handling varying levels of traffic. It is important to note that these results are based on a single measurement and may not be representative of the websites' performance over time.

e. Based on the results, which search engine would you recommend and why?

Based on the data, Duckduckgo.com appears to be the most reliable search engine, with the lowest average response time across all load profiles and a very low percentage of requests with errors. Mojeek.com has the highest percentage of requests with errors and a relatively high average response time, making it the least reliable of the three search engines. While Gibiru.com has a fast average response time, its data indicates that it might not be reliable due to the lack of information about error rates. Therefore, if reliability and speed are important factors, I would recommend Duckduckgo.com as the best search engine based on the given data.

f. In 30 to 50 words, discuss the advantages and disadvantages of using BlazeMeter in conjunction with JMeter for performance testing.  
BlazeMeter offers advantages such as cloud-based load testing, scalability, and real-time reporting, while JMeter is an open-source tool with a large user community and support for multiple protocols. However, BlazeMeter can be costly for long-term use, and its user interface may not be as user-friendly as other performance testing tools.