Q1

My browser didn't perform any DNS queries to resolve the IP address of
http://ceng.metu.edu.tr because the IP address already exists in my DNS cache.

Q2

No	Time
70	2.135287
131	2.582629
133	2.584548
135	2.595532
294	2.891711

Q3

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/78.0.3904.87 Safari/537.36\r\n

Accept-Language: tr-TR,tr;q=0.9,en-US;q=0.8,en;q=0.7\r\n

Q4

5 Cookie pairs sent to the server with first GET request.

Q5

In the request package details, the last line of the Hypertext Transfer Protocol tab shows the number of the response package number. Also, in the response package details, the matched request package number can be found under Hypertext Transfer Protocol tab.

Q6

Browsers make limitations about the number of HTTP connections that have same domain name. This limitation is included in HTTP specification (RFC2616). My current browser is Chrome (version 78.0.3904.97). My browser limits the connection per hostname at 6 and maximum connections at 16.

BONUS QUESTION

Username: Palpatine

Password: Order66

The zip file is named as supersecret.zip and it includes one text file namely secretfile.txt.

Content of the secretfile.txt: "ceng435{This-is-why-https-is-important}"