**Department of Electronics & Communication Engineering**Computer Communication Networks Laboratory   
Worksheet - 2

**Name:**

**Date:**

**SRN:**

**Section:**

**Semester:** 5

**Lab 2: Analyse GET and Conditional GET under HTTP using Wireshark**

**PART-A**  
1. Analyse the HTTP GET request sent by your browser and fill the following table:

**Connection**

**Host**

**URL**

**Method**

**Version**

2. What does the value in the ‘Connection’ field indicate?

3. What are the contents of the entity body (if any) in the GET request sent by the browser?

4. List the source and destination IP addresses & port numbers included in the GET request. Also indicate whether they belong to the client or the server respectively.

5. Analyse the HTTP response received by your browser and fill the following table:

**Content-Type**

**Connection**

**Date**

**Last-Modified**

**Content-Length**

**Phrase**

**Status Code**

**Version**

6. What is the purpose of the ‘Last Modified’ field present in the response?

7. What are the contents of the entity body (if any) in the HTTP response?

8. What is the unit of measure for the ‘Content-Length’ field? What does the value in this field indicate?

**PART-B**

9. Analyse the first GET request sent by your browser and fill the following table:

**Connection**

**Host**

**Version**

**URL**

**Method**

10. What are the meanings of the value indicated by the ‘Accept’ and ‘Accept-Language’ fields?

11. Analyse the first HTTP response received by your browser and fill the following table:

**Status Code**

**Version**

**Phrase**

**Date**

**Last-Modified**

**Connection**

**Content-Type**

**Content-Length**

12. In the second GET request (conditional GET request) sent by your browser, is there an ‘If-Modified-Since’ field present? If so, what is its purpose?

13. Based on the previous question, why are these types of requests called **Conditional** GET requests?

14. Analyse the second HTTP response received by your browser and fill the following table:

**Phrase**

**Status Code**

**Version**

15. What are the contents of the entity body (if any) in the second HTTP response? Correspondingly, what will be the content length?

16. Even though the data is not explicitly returned by the server in the above response, why is it beneficial for the client?

**Additional Exercises:**  
1. In Part A of the experiment, you might have observed a GET request for ‘favicon.ico’. What is a favicon?

2. Using the ‘http’ filter applied earlier, open the Google Search page in your browser. It is likely that you will not see a new entry in the packet listing window of Wireshark. Why is this the case?  
(Hint: Check the complete URL of the page visited. Do you notice any difference from the earlier examples?)