

National University of Computer and Emerging Sciences, Lahore Campus
Quiz2 [BSCS: Section C] Fall 2022

Computer Networks (Code: CS3001)

Quiz Date: September 21, 2022

Total Marks: 10

Duration: 12 -Minutes

Name ----- Roll #----- Section -----

Instructions: Provide your answer(s) on this sheet only. You can make use of rough sheet (do not attach to this sheet).

Q1: Consider the following string of ASCII characters that were captured by Wireshark when the browser sent an HTTP GET message (i.e., this the actual content of an HTTP GET message). The character are carriage return and line-feed characters (that is, the italicized character string in the text below represents the single carriage-return character that was contained at the point in the HTTP header). Answer the following questions (2*5 = 10)[CLO 2]

```
GET /cs453/index.html HTTP/1.1<cr><lf>Host: gai
a.cs.umass.edu<cr><lf>User-Agent: Mozilla/5.0 (
Windows;U; Windows NT 5.1; en-US; rv:1.7.2) Gec
ko/20040804 Netscape/7.2 (ax) <cr><lf>Accept:ex
t/xml, application/xml, application/xhtml+xml, text
/html;q=0.9, text/plain;q=0.8,image/png,*/*;q=0.5
<cr><lf>Accept-Language: en-us,en;q=0.5<cr><lf>Accept-
Encoding: zip,deflate<cr><lf>Accept-Charset: ISO
-8859-1,utf-8;q=0.7,*;q=0.7<cr><lf>Keep-Alive: 300<cr>
<lf>Connection:keep-alive<cr><lf><cr><lf>
```

- A. What is the URL of the document being requested by the browser?
<http://gaia.cs.umass.edu/cs453/index.html>
- B. What version of HTTP is the browser running?
The browser is running HTTP version 1.1, as indicated just before the first pair.
- C. Does the browser request a non-persistent or persistent connection?
The browser is requesting a persistent connection, as indicated by the Connection: keep-alive.
- D. What is the IP address of the host on which browser is running?
This is a trick question. This information is not contained in an HTTP message anywhere. So there is no way to tell this from looking at the exchange of HTTP messages alone. One would need information from the IP datagrams (that carried the TCP segment that carried the HTTP GET request) to answer this question.
- E. What type of browser initiates this message?
Mozilla/5.0