



THE HONG KONG
POLYTECHNIC UNIVERSITY
香港理工大學

COMP2322 COMPUTER NETWORKING
SPRING 2024

Lab 02
HTTP

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Question 1 My browser is running HTTP version 1.1, so does the server.

Question 3 The IP address of my computer is 10.11.136.214, while the server's is 128.119.245.12.

Source	Destination	Protocol
10.11.136.214	128.119.245.12	HTTP
128.119.245.12	10.11.136.214	HTTP

Question 5 The HTML file was last modified at Tue, 06 Feb 2024 09:50:05 GMT.

```
Last-Modified: Tue, 06 Feb 2024 06:59:01 GMT\r\n
```

Question 9 Yes, the server explicitly return the contents of the file, for there are 371 bytes of hexadecimal code representing the line-based text in the form of HTML

Question 11 The status code returned from the server in the response of the second GET is 304, and the phrase is Not Modified. The server did not explicitly return the contents of the file in the second response, since the file had not been modified since the first response and there were no file data in the code.

Question 13 The packet No.103 contains the status code and phrase associated with the GET request.

```
103 3.084748 128.119.245.12 10.11.136.214 HTTP 769 HTTP/1.1 200 OK (text/html)
```

Question 15 Four segments were needed to carry the single HTTP response and the text of the Bills of Rights.

```
✓ [4 Reassembled TCP Segments (4861 bytes): #100(1382), #101(1382), #102(1382), #103(715)]
  [Frame: 100, payload: 0-1381 (1382 bytes)]
  [Frame: 101, payload: 1382-2763 (1382 bytes)]
  [Frame: 102, payload: 2764-4145 (1382 bytes)]
  [Frame: 103, payload: 4146-4860 (715 bytes)]
  [Segment count: 4]
  [Reassembled TCP length: 4861]
```

Question 17 The two images were downloaded serially, because the time of the requests of two images, and also the responses, are different from each other.

```
650 2.538806 10.11.136.214 128.119.245.12 HTTP 935 GET /pearson.png HTTP/1.1
699 2.722966 10.11.136.214 178.79.137.164 HTTP 481 GET /8E_cover_small.jpg HTTP/1.1
```