Computer Network Assignment 2

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Q1:

```
telnet> telnet whu.edu.cn 25
Trying 202.114.64.84...
Connected to whu.edu.cn.
Escape character is '^]'.
220 whu.edu.cn Anti-spam GT for Coremail System (whu[20171226])
helo JackyXiangcheng
250 OK
auth login
334 dXNlcm5hbWU6
                              (redacted)
334 UGFzc3dvcmQ6
                              (redacted)
235 Authentication successful
mail from:<2016302580127@whu.edu.cn>
250 Mail OK
rcpt to:<2957481087@qq.com>
250 Mail OK
data
354 End data with <CR><LF>.<CR><LF>
from:2016302580127@whu.edu.cn
to:2957481087@qq.com
subject:helloworld



test
.
250 Mail OK queued as AgBjCgC3vv6EcoRcI26jAA--.20566S2
Connection closed by foreign host.
logout
Saving session...
...copying shared history...
...saving history...truncating history files...
...completed.

[进程已完成]
```

test

Q2:

P1. True or false?

a. A user requests a Web page that consists of some text and three images. For this page, the client will send one request message and receive four response messages.

b. Two distinct Web pages (for example, `www.mit.edu/research.html` and `www.mit.edu/students.html`) can be sent over the same persistent connection.

c. With nonpersistent connections between browser and origin server, it is possible for a single TCP segment to carry two distinct HTTP request messages.

d. The `Date:` header in the HTTP response message indicates when the object in the response was last modified.

e. HTTP response messages never have an empty message body.

a.F

b.T

c.F, non-persistent connections.

d.F, not last modified.

e.F

P3. In application layer, we require protocols like DNS and HTTP, and in transport layer, we need

UDP and TCP.

P5. a.The server could locate the document successfully. The reply time is Tue, 07 Mar 2008 12:39:45 GMT.

b.Sat,10 Dec 2005 18:27:16 GMT.

c.3874bytes.

d.<!doc, the server agreed to a persistent connection.

P11. a.Yes. Because Bob attains more connections than other users, surely he will have a lager share of the link bandwidth.

b.Yes. Because Bob needs to perform parallel downloads, or he will not have a larger share of the link bandwidth.

P13. In STMP, the MAIL FROM is a message from the STMP client that identifies the sender of the mail message to the STMP server. However, the From is, on the mail message itself is not an STMP message, it is just a line in the body of the mail message.