

Answers to Chapter 1

1~5 ADCAD 6~10 BACDB 11~15 CBAAB
 16~20 BBACC 21~25 DCDBB 26~30 DABBB
 31~35 CABAC 36~40 BBDBC 41~45 AACBD
 46~50 CDABC

51.

(1). $t = 5 * (3000 + 500) / 1000 + 0.1 = 17.6s$

(2). $t = 5 * (3000 + 200) / 1000 = 16s$

(3). $t = (3000 + 200) / 200 + 0.02 = 16.02s$

Answers to Chapter 2

1~5 CACDC 6~10 CDABD 11~15 CCBAB
 16~20 DDBBD 21~25 ACBDC 26~30 ABCDC
 31~35 BDBDC 36~40 DBBAD 41~45 ACCAC
 46~50 DACCC 51~55 CABAC 56~60 DBADA
 61~65 DBDBA 66~70 CADCC 71~75 CDDAA
 76~81 BACACB

82. Request line: GET /somedepartment/somedir/exp.html
 HTTP/1.1(or HTTP/1.0)

Header lines: Host: www.stdjtu.edu.cn (stdjtu.edu.cn)

Connection: close

User-agent: windows NT 5.1 (or windows NT/5.1)

Accept-language: fr (or French)

83. Request line: GET /somedir/exp.html HTTP/1.1

Header lines: Host: www.djtu.edu.cn

Connection: close

User-agent: windows NT 5.1

If-Modified-Since: Thu, 30 May 2007 12:00:00 GMT

Accept-language: fr

84.

$2RTT_0 + RTT_1 + RTT_2 + \dots + RTT_n$

85.

a.

C: dele 1

C: retr 2

S: blah blah

S:blah

S:

C: dele 2

C: quit

b.

说明：内容仅供参考。

C: retr 2

S: blah blah

S:blah

S:

C: quit

86.

From: 123@xxx.com

To: 456@yyy.com

Subject: zzzzzzz

MIME-version: 1.0

content-transfer-encoding: base64

content-type: application/Msexcel

Answers to Chapter 3

Choices:

1~5 ADBCA 6~10 ABACD 11~15 BACDB
 16~20 DDAAD 21~25 DAAAA 26~30 AAAAA
 31~35 BCABC 36~40 DBCDB 41~45 BACAA
 46~50 ABCDA 51~55 ABAAB 56~60 DBBDA
 61~65 BAABB 66~70 DAAAA 71~75 BAAAB
 76~80 AAAC 81~85 DADBB 86~90 AACCC
 91~95 DDBCB 95~100 CBABD 101~106 ABABDB

107. $K = O / (WS) = 500 * 8 * 1000 / (5 * 5000 * 8) = 200$

Latency = $2RTT + O/R + (K-1)(S/R + RTT - WS/R)$

$= 0.4 + 500 * 1000 * 8 / 100000 + (200-1)(500 * 8 / 100000 + 0.2 - 5 * 500 * 8 / 100000)$

$= 48.36s$

108. a) 12 b) 8 c) 7 d) A e) B f) 5

109. a) 12 b) 12 c) 12, 22

110. a) 1 b) 0 c) 1 d) 0 e) 93

111. (1) Latency = $2RTT + O/R = 2 * 0.1 + 100 * 8 / 25 = 0.2 + 32 = 32.2 (s)$

$W * S/R > S/R + RTT$ ---- $W > 1.6$, so $W = 2$

(2) Latency = $2RTT + O/R = 2 * 0.1 + 100 * 8 / 100 = 0.2 + 8 = 8.2 (s)$

$W * S/R > S/R + RTT$ ---- $W > 3.3$, so $W = 4$

112. a) 12 b) 8 c) 7 d) timeout e) 3 triple ACK