Question 2.1

;;
;; After execution of the following instructions
;; what value will be in the condition code flags?
;;
00 E3A00020  MOV  r0, #0x20
04 E3A01020  MOV  r1, #0x20
08 E0512000  SUBS r2, r1, r0

(A) 0x5  (B) 0x1  (C) 0xC
(D) 0x6  (E) 0x4  (F) OTHER

Question 2.2

;;
;; After execution of the following instructions
;; what value will be in the condition code flags?
;;
00 E3A00103  MOV  r0, #0xC0000000
04 E3A0120F  MOV  r1, #0xF0000000
08 E0513000  SUBS r3, r1, r0

(A) 0xF  (B) 0x8  (C) 0x2
(D) 0x6  (E) 0x4  (F) OTHER

Question 2.3

;;
;; After execution of the following instructions
;; what value will be in the condition code flags?
;;
00 E3A00102  MOV  r0, #0x80000000
04 E3A01101  MOV  r1, #0x40000000
08 E0517000  SUBS r7, r1, r0

(A) 0xF  (B) 0xE  (C) 0xC
(D) 0x9  (E) 0x1  (F) OTHER

Question 2.4

;;
;; After execution of the following instructions
;; what value will be in the condition code flags?
;;
00 E3A0020A  MOV  r0, #0xA0000000
04 E3A0120F  MOV  r1, #0xF0000000
08 E0913000  ADDS r3, r1, r0
0c E0432000  SUB  r2, r3, r0

(A) 0xA  (B) 0xB  (C) 0x1
(D) 0x5  (E) 0xF  (F) OTHER
Condition Code Flags

For ease of reading machine code and integer data in the second column are displayed in big endian format, byte data and strings in little endian format.

ASCII Table

Conditional Branch Instructions

Summary of LDR/STR Addressing Modes

Name  Student Number  Signature  Date

Question 2.1  Question 2.2  Question 2.3  Question 2.4