**Unx511/DPS912: Unix Systems Programming**

Quiz 3

Answer the questions in **bold** embedded in the code below: [2 marks each]

//exercise.cpp - Test file for Quiz 3

//

// 26-Jan-19 M. Watler Created.

//

#include <fcntl.h>

#include <stdlib.h>

#include <unistd.h>

int main(void)

{

int fd1, fd2, fd3;

const char file[]="Quiz3.txt";

fd1 = open(file, O\_RDWR | O\_CREAT | O\_TRUNC, S\_IRUSR | S\_IWUSR);

fd2 = dup(fd1);

fd3 = open(file, O\_RDWR);

**//Question 1: Do fd1 and fd2 share the same file offset value?**

**//Question 2: Do fd1 and fd3 share the same file offset value?**

write(fd1, "Hello,", 6);

write(fd2, "world", 5);

**//Question 3: What will you see in Quiz3.txt at this point?**

lseek(fd2, 0, SEEK\_SET);

write(fd1, "HELLO,", 6);

**//Question 4: What will you see in Quiz3.txt at this point?**

write(fd3, "Gidday", 6);

**//Question 5: What will you see in Quiz3.txt at this point?**

close(fd1);

close(fd2);

close(fd3);

return 0;

}