CSC 3320 : System-Level Programming
Fall 2024: Exam 1 Key

1. i) (1 point) A
    ii) (1 point) D
    iii) (1 point) A
    iv) (1 point) A
    v) (3 points) D
    vi) (3 points) B
    vii) (3 points) A, D
    viii) (3 points) B
    ix) (3 points) C
    x) (3 points) B

2. i) (2 points) `cd /home/tests/HW` or `cd /home/tests/HW/`
    ii) (2 points) `cp  try.py ../newtry.py` or `cp  ./try.py ../newtry.py`
    iii) (2 points) `mv -i hello.c new_hello.c` or `mv hello.c new_hello.c`
    iv) (2 points) `cd ../Exams` or `cd ../Exams/`
    v) (2 points) `mkdir MCQ`
    vi) (2 points) Answer can be one of the following:
    ```
    mv -i Q1.txt ./MCQ/
    mv Q1.txt ./MCQ/
    mv -i Q1.txt MCQ/
    mv -i Q1.txt MCQ
    mv -i ./Q1.txt MCQ
    ```
    vii) (2 points) `rm -r ../HW` or `rm -r ../HW/`
    viii) (2 points) Ans: `chmod u-x,go+w hello.c` or `chmod u-x,g+w, o+w hello.c`
    ix) (2 points) `rm *.c` or `rm hello.c` or `rm new_hello.c` (as there was only one .c file)

3. (2 points) Ans: The `cat > file.txt` command creates a new file named `file.txt` and `cat >> file.txt` creates a new file named `file.txt` (if it was not there) or appends to an existing file (if the file was already there).

4. (2 points) Ans: The command is compiling a C program named `hello.c` and creating an executable/object file, called `hello`. The `-o` flag is used to name the object file.

5. (2 points) Ans: The problem is that the file is not present in the current directory of the local machine/computer. Either the `hello.c` file was never created, or it was created in a different location other than current directory. To fix the problem, the file must be created or transferred to the current directory. Then, the error will disappear.

6. (2 points) Ans: CTRL-C stops/terminates a running program (no possibility to resume operations), while CTRL-Z suspends the execution of a running program. The suspended program can be resumed later.

7. (2 points) Ans: `ls -l example.txt`

8. (5 points (bonus)) Ans: `[0-9]{3}\.[0-9]{3}\.[0-9]{4}` or `\d{3}\.\d{3}\.\d{4}`

Question:	1	2	3	4	5	6	7	8	Total
Points:	22	18	2	2	2	2	2	0	50
Bonus Points:	0	0	0	0	0	0	0	5	5
Score:									