

Short answer questions

Question 1:

In order for someone to be hired for a job, the candidate must be a Canadian citizen ('c') and have one of the following university degrees ('bcomm' or 'bsc') or greater than ten years of work experience. Modify the following program so that the message 'hired' appears if the candidate meets the above qualifications and 'not hired' if he or she does not.

```
citizen = input("Canadian citizen? (n = not citizen, c = citizen): ")
xp = int(input("Years of work experience: "))
degree = input("Type of university degree (ba, bcomm, bsc, bfa): ")
```

<< **Your answer** >>

Question 2:

In the space provided below you are to show the output of the following program.

```
x = 0
y = 3
for i in range(x, y, 1):
    for j in range(y, x, -1):
        print(i, j)
```

<< **Write your answer here** >>

Question 3

Using a loop write a program that will display all the odd numbers in the range from 1 – 99.

<< Write your answer here >>

<< End answer space >>

Multiple choice questions

1. Which of the following are examples of storage devices that allow for the reading *and* writing of information?
 - a. A hard drive
 - b. A floppy disk
 - c. A CD-ROM drive
 - d. (a) & (b)
 - e. All of the above

2. If you were passing through a strong magnetic field which of the following storage devices may have its data corrupted?
 - a. A floppy disk
 - b. A CD-RW
 - c. DVD+R
 - d. DVD-RW
 - e. More than one of the above answers is true

3. What would be a reasonable amount of RAM that you would expect in a new computer that you would buy today?
 - a. 1 Byte
 - b. 1 Kilobtye
 - c. 1 Megabyte
 - d. 1 Gigabyte
 - e. 10 Terabytes

4. If the number 111777 were entered by a user using a 4 digit mantissa what number would actually be stored?
- 1
 - 1117
 - 1777
 - 111777
 - 777111
5. On most modern computers: Typically what happens when the amount of RAM physically installed in a computer is less than the memory requirements of a program that is currently running.
- The program will 'crash'.
 - The operating system itself will 'crash' and 'reboot'.
 - The program will swap between memory and storage as needed but execution speed will never be affected.
 - The program will swap between memory and storage as needed slowing down the execution of the program.
 - You will see an advertisement indicating that it is time for you to buy a new computer.
6. In terms of a Python program which of the following is true about the variable 'num' in the program below?
- ```
num = 3.14
```
- Num is a floating point variable
  - Num is an integer variable
  - Num is a real number variable
  - Num is a string variable
  - The type of information associated with variable num cannot be determined solely from the above program
7. What is the output of the following program? <SP> = a blank space
- ```
x = 11
print('%4d' %(x))
```
- 11
 - <SP>11<SP>
 - 11<SP><11>
 - <SP><SP>11
 - %4d

8. How many times will the following loop execute.

```
i = 1
```

```
while (i < 7):
```

```
    print(i)
```

```
    i = i + 1
```

a. 0

b. 1

c. 6

d. 7

e. This is an endless loop

JT: Liked the practice exam, then you'll love the real thing!

