

COP 2930 Exam #1 Day #1

Name: _____

2/19/2020

1) (5 pts) Write a single print statement to produce the following output:

Happy
Birthday\\
George

2) (5 pts) What is the value of the following arithmetic expressions?

a) $3 + 8 * 2$ _____

b) $7 // 4 + 3$ _____

c) $7 / 4 + 3$ _____

d) $13 \% (2 + 6)$ _____

e) $1000 \% 1001 + 1000 // 1001$ _____

3) (5 pts) Which of the following is not a valid name for a variable? Why? Note: There may be more than one that is not valid. To get full credit, you must identify each invalid variable name and why each is not valid. (Circle the invalid ones and give the reasons on the lines provided.)

a) variable

b) 4get

c) score5

d) forget

e) continue

4) (8 pts) It's important to make code easy to read for others because in most work environments, many people may have to edit the same code base. Explain four techniques one can use to make their code more readable. Please explain each technique clearly.

5) (6 pts) What is the output of the following segment of code?

```
x = 5
y = 4
area = x*y
print(x,y,area)
x = x + 2
y = y + 1
print(x,y,area)
```

6) (4 pts) What is the largest integer the following segment of code could print out?

```
x = int(input("Enter an integer. "));  
  
if x > 30:  
    print(50)  
elif x < 20:  
    print(40)  
elif x < 70:  
    print(60)  
elif x > 0:  
    print(100)  
else:  
    print(200)
```

Answer: _____

7) (4 pts) How many times does “Go Knights!” print when the code segment below is executed?

```
for i in range(17,100,10):  
    print("Go Knights!");
```

Answer: _____

8) (4 pts) How many times does “Go Knights!” print when the code segment below is executed?

```
for i in range(100):  
    print("Go Knights!");  
    if i//5 > 2:  
        break
```

Answer: _____

9) (4 pts) How many times does “Go Knights!” print when the code segment below is executed?

```
for i in range(100):  
    if i%10 > 2:  
        continue  
    print("Go Knights!");
```

Answer: _____

10) (4 pts) What does the following code segment print out? (Note: more lines than necessary are provided.)

```
for i in range(1,5):  
    for j in range(i):  
        print(i, end="")  
    print()
```

11) (1 pt) By what acronym is the Ladies Professional Golf Association known? _____