Section: 19 /50

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# **Cmsc 201 Midterm Practice Exam**

**True or False: (5 points)**

1. RAM moves around bits of information quickly?

2. Python has automatic truncation built in?

3. The CPU stands for “Central Programming Unit?”

4. Variables can be used to contain temporary information?

5. Functions cannot call on one another?

**Question and Answer: ( 8 points)**

1. What is the hard drive physically composed of?

2. What does an interpreter do?

3. A \* symbol is used to access \_\_\_\_\_ files?

4. What is the \*\* symbol used for?

5. What is the // symbol used for in python?

6. Give an example of a conditional boolean statement

7. What are the three Boolean operators?

8. What is the floor function used for?

**Primitive Types and Objects: (3 Points)**

1. Give an example of an integer

2. How do you concatenate 2 strings?

3 Why would you use an integer rather than a float?

**Unix Commands: (3 points)**

**What do the following Commands do?**

1. cp:

2. rm:

3. rmdir:

**What will the following Boolean statements equate to? (2 points)**

1. ((True or False) or (False or (True and False)) and True

2. True and not(True or False)

**Evaluate the expressions below (2 Points)**

1. (6+5%2)//2

2. (7\*\*2)-5/4

**What will the following pieces of code print? (10 points)**

**1.**

def main():

a=10

b=6

a=b

b=5

print (a)

main()

**2.**

def main():

sum=0

total = 0

myList= [1, 2, 3, 4]

for listItem in myList:

 listItem=4

 sum=sum+listItem

print (sum)

main()

**3.**

def main():

 for i in range(5):

 for j in range(5):

 print(j, end=””)

 print()

main()

**4.**

def main():

while sum<=10:

 for i in range(10):

 total=total+1

 print(total)

 sum=sum+1

main()

**5.**

def main():

 sarah = 3

 if sarah != 4:

 print("yussir")

 elif sarah == 3:

 print("Nope")

 else:

 print("Fizz")

main()

**Binary/Trinary: (4 points)**

1. write 41 in binary:

2. write 99 in binary:

3. write 82 in trinary:

4. Put binary 11110001 back into decimal format:

**Write Code: (10 points)**

1. Write some code that takes an input from a user then prints out all the prime numbers between one and the user’s number.

2.Sally loves words, but hates words with exactly six letters. Sally is given a list of words [luggage, airplane, apples, phones, butter, butterscotch] but really hates the words with six letters. Write a program that returns her list of words without the words that have six letters. Print the words that don’t have six characters as a list.

**Error in code: ( 3 points)**

1. Point out all the errors in this piece of code:

 def max (myList):

 max==myList[0]

 for item in myList

 if item>max:

 max=Item

 print max