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TO PASS 70% or higher

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Lecture 3 Quiz

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1. What data type is the object below? **1 / 1 point**

   [1e-10,(1,2),"BGP",[3]]

   - (•) List
   - ( ) Tuple
   - ( ) String
   - ( ) Array

   ✓ **Correct**

2. What is the value returned when the code below is executed: **1 / 1 point**

   >>> grades = [70,80.0,90,100]

   >>> (grades[1]+grades[3])/2

   - ( ) 85.0
   - (•) 90.0
   - ( ) 90
   - ( ) 80

   ✓ **Correct**

3. Suppose **splice_site_pairs** = ['GT-AG','GC-AG','AT-AC']. What is **splice_site_pairs**[:-1] ? **1 / 1 point**

   - (•) ['GT-AG', 'GC-AG']
   - ( ) ['GT-AG','GC-AG','AT-AC']
   - ( ) ['GT-AG']
   - ( ) ['AT-AC']

   ✓ **Correct**

4. We want to add a new element to a list variable L. The new element is stored in a variable e. What command do we use? **1 / 1 point**

   - ( ) L.addEnd(e)
   - (•) L.append(e)
   - ( ) L.addLast(e)
   - ( ) L.add(e)

   ✓ **Correct**

5. Suppose t = ('a', 'c', 'g', 't'). What will be the output of the following code: **1 / 1 point**

   >>> t.append(('A','C','G','T'))

   >>> print len(t)

   - ( ) 5
   - ( ) 8
   - (•) Error
   - ( ) 1

✓ Correct

6. What is the result of the print function in the following Python 3.xx code: 1 / 1 point

dna=input("Enter DNA sequence:")

dna_counts={'t':dna.count('t'),'c':dna.count('c'),'g':dna.count('g'),'a':dna.count('a')}

nt=sorted(dna_counts.keys())

print(nt[-1])

- 'g'
- 'c'
- 4
- 't'

✓ Correct

7. To delete an entry with the key 'a' from the dictionary dna_counts={'g': 13, 'c': 3, 1 / 1 point

't': 1, 'a': 16} what command do we use:

- dna_counts['a']=''
- dna_counts.delete('a':16)
- dna_counts[-1]=''
- del dna_counts['a']

✓ Correct

8. Suppose dna is a string variable that contains only 'a','c','g' or 't' characters. What Python code below can we use to find the frequency (max_freq) of the most frequent character in string dna? 1 / 1 point

```
dna_counts=
{'t':dna.count('t'),'c':dna.count('c'),'g':dna.count('g'),'a':dna.count('a')}

max_freq=sorted(dna_counts.keys())[-1]CODE
```

```
dna_counts=
{'t':dna.count('t'),'c':dna.count('c'),'g':dna.count('g'),'a':dna.count('a')}

max_freq=sorted(dna_counts.values())[-1]
```

```
dna_counts=
{'t':dna.count('t'),'c':dna.count('c'),'g':dna.count('g'),'a':dna.count('a')}

max_freq=dna_counts.sort()[-1]
```

```
dna_counts=
{'t':dna.count('t'),'c':dna.count('c'),'g':dna.count('g'),'a':dna.count('a')}

max_freq=sorted(dna_counts.values())[0]
```

✓ Correct

9. Suppose L1 and L2 are two list variables. What does the list variable 1 / 1 point

L3 = list(set(L1)&set(L2)) contain?

- A list of two sets: one set with the elements of list L1, and another set with the elements of L2
- All elements common between lists L1 and L2 without duplicates
- A list of sets formed with the elements of lists L1 and L2
- All elements in lists L1 and L2

✓ Correct

10. How many elements are in the dictionary someData after the following code has been executed?

1 / 1 point

```
someData = { }
someData['cheese'] = 'dairy'
someData['Cheese'] = 'dairy'
someData['Cheese'] = 'Dairy'
someData['cheese'] = 'Dairy'
```

- 0
- 3
- 2
- Can't say - an error message was issued.

✓ **Correct**