Question 1

1 out of 1 points

What does the following program do? (mark all answer parts that you believe are correct):

```python
values = [3, 80, 22, 13, 10]
t = 10
pos = 0
flag = False
while pos < len(values) and not flag :
    if values[pos] < t :
        flag = True
    else :
        pos = pos + 1

if flag :
    print(pos)
else :
    print("No")
```

Selected Answers: ✅ C. it does a linear search

✅ D. it searches for a specific target value and returns its index value

Answers: A. it returns the index values of all occurrences of a target value

      B. it establishes a sorting application

✅ C. it does a linear search

✅ D. it searches for a specific target value and returns its index value

      E. it searches for all occurrences of a target value

Question 2

Given the following partial Python code that inputs and prints a float number:

====

```
try:
    value = input("Enter a float value: ")
    number = float(value)
    x = 1/0
    print(number)
```

=====

then, which of the following parts are correct (mark all parts that you believe are correct):

Selected
Answers:

✅ A. The code is missing an except clause

✅ B. The code needs a finally clause

✅ E. The code's exception handling is not complete

Answers:

✅ A. The code is missing an except clause

✅ B. The code needs a finally clause

C.
The code has a division by zero and therefore we can not answer the question

D. The code does not miss anything

✅ E. The code's exception handling is not complete

Question 3

Given the following Python code for the Counter class discussed in class and the slides:

====

```
class Counter :
    def getValue(self) :
        return self._value

    def click(self) :
        self._value = self._value + 1

    def reset(self) :
        self._value = 0
```

=====

then, which of the following answer parts are correct (mark all parts that you believe are correct):

Selected
Answers:

✅ A.
The code needs a method that automatically initializes all instance variables

✅ C. The code is missing a constructor method

✅ D. The code needs the method that has this name: __init__

Answers: ✅ A.
The code needs a method that automatically initializes all instance variables

B. The code is missing the public interface

✅ C. The code is missing a constructor method

✅ D. The code needs the method that has this name: __init__

E. The code is 100% perfect and does not miss anything

Question 4

1 out of 1 points

Given the Counter class discussed in the lecture and slides, and given that the object tally has been properly initialized with a zero value instance variable, then, what is the displayed output of the following partial piece of code:

```python
result = tally.getValue()|
tally.click()
tally.click()
result = tally.getValue()
tally.click()
result = tally.getValue()
tally.click()
result = tally.getValue()
print(result)
tally.click()
```

Selected Answer: ✅ B. 4

Answers: A. 0

✅ B. 4

C. 2

D. 3

E. 5

Question 5

0.75 out of 1 points

In order to have a function that returns several variable output values, which of the following Python structures are needed (mark all answer parts that you believe are correct):

Selected Answers: ✅ B. a tuple

❌ E. a list

Answers: A. an exception handler

✅ B. a tuple

C. a constructor method

D. a dictionary

E. a list

Question 6

1 out of 1 points

Given the Counter class discussed in the lecture and slides, and given that the object tally has been properly initialized with a zero value instance variable, then, what is the displayed output of the following partial piece of code:

```
result = tally.getValue()
print(result)
tally.click()
tally.click()
result = tally.getValue()
tally.click()
result = tally.getValue()
tally.click()
result = tally.getValue()
tally.click()
```

Selected Answer: ✔ D. 0

Answers: A. 2

B. 4

C. 3

✔ D. 0

E. 5

Question 7

1 out of 1 points

Which of the following Python structures is immutable:

Selected Answer: ✔ A. tuples

Answers: ✔ A. tuples

B. exception handling

C. lists

D. dictionaries

E. functions

Question 8

0 out of 1 points

A public interface (mark all answer parts that you believe are correct):

Selected Answers: ❌ C. All of the answer parts in this question are not correct

Answers: A.
contains all the methods of a class and their descriptions plus exception handling

B.
contains all the methods of a class and their descriptions, except for constructor methods

C. All of the answer parts in this question are not correct

D. contains the description of a class

✅ E. contains all the methods of a class and their descriptions

Question 9

0 out of 1 points

Given the following Python code, which of the following answer statements is needed to make the string named **list** consisting of either alphanumeric characters or white spaces, only?:

start of code

list = "The # final ex@m of thi$ course is approaching and it is *time* to study hard n0w"

for word in list:

 # which statement in the answer parts should be inserted here?

print(word)

Selected Answer: ❌ D. word = word.rstrip("#@* $")

Answers: A. word = word.rstrip()

B. word = word.rstrip("#@*$0")

C. word = word.rstrip("#@* $0")

D. word = word.rstrip("#@* $")

✅ E. word = word.rstrip("#@*$")

Question 10

0.333 out of 1 points

Given the following partial Python code, such that x, y, and z were previously declared as float variables that will read from several lines of float data, from an input file (assume that the file contains proper float data, 3 float values on each line, no strings or any mistakes):

formula = (x**3 - y**5)/ (z**4)

then, which of the following exceptions would be a proper pick to detect and handle possible run-time errors in the above formula (mark all parts that you believe are correct):

Selected Answers: ❌ A. ValueError

✅ C. ArithmeticError

❌ D. OverFlowError

✅ E. ZeroDivisionError

Answers: A. ValueError

B. IOError

✅ C. ArithmeticError

D. OverFlowError

✅ E. ZeroDivisionError

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← OK