Pre-test for SIC Coding and Programming Course

Date:

Name:

Q1. What is the function that can check the data type of data or variable in Python?

1. len()
2. type()
3. class()
4. int()

Q2. What is the wrong way to use comments in Python programming?

1. Write comments after #(hash mark).
2. Write comments between """ and """.
3. Write comments between ''' and '''.
4. Write comments after //.

Q3. What kind of string is obtained when strings '100' and '200' are connected by the + operator?

|  |
| --- |
| ‘100’ + ‘200’ |

1. '300'
2. '100200'
3. '100 200'
4. '200'

Q4. If there is a list a having five elements as follows, what value does the pop(1) method return?

|  |
| --- |
| a = [10,20,30,40,50] |

1. 10
2. 20
3. 30
4. 40

Q5. If there is a list a [10, 20, 30, 40] having four integer elements, what value does index method return?

|  |
| --- |
| a = [10,20,30,40]  a.index(40) |

1. 0
2. 1
3. 2
4. 3

Q6. What value can be searched with dictionary product [‘name’] in the following code?

|  |
| --- |
| product = {‘name’: ‘AMOLED TV’, ‘size’: 86, ‘Company’: ‘Samsung’} |

1. size
2. 'Samsung'
3. name
4. 'AMOLED TV'

Q7. If the price of an item in a shopping mall is 3,000 won or more, you want to print 'Free shipping'. Which expression is appropriate for the underlined part?

|  |
| --- |
| if :  print(‘Free shipping’) |

1. price >= 3000
2. price == 3000
3. price => 3000
4. price > 3000

Q8. What is the output of the following Python code?

|  |
| --- |
| from collections import defaultdict  def countLetters(word):  counter = defaultdict(int)  for letter in word:  if letter == ‘c’:  counter[letter] += 2  continue  counter[letter] += 1  return counter  a = countLetters(‘abcbaabca’)  print(a) |

1. {'a': 4, 'b': 3, 'c': 2}
2. {'a': 4, 'b': 2, 'c': 3}
3. {'a': 4, 'b': 3, 'c': 4}
4. {'a': 3, 'b': 2, 'c': 2}.

Q9. What is the value of the counter variable in the following Python code?

|  |
| --- |
| def print\_counter():  counter = 200  counter = 100  print\_counter()  print(‘counter=’,counter) |

1. 300
2. 200
3. 150
4. 100

Q10. You want to make a string like 'bcdef...za' by shifting one character of the string up to 'abcd..yz'. What are the correct codes to fit on the blank lines, respectively, in the following code?

|  |
| --- |
| import string  src\_str = \_\_\_\_\_\_\_\_\_\_\_\_\_  dst\_str = \_\_\_\_\_\_\_\_\_\_\_\_\_  print(‘dst\_str=’, dst\_str) |

1. string.ascii\_lowercase, src\_str[1:] + src\_str[:1]
2. String.ascii\_lowercase, src\_str[1:] + src\_str[:]
3. string.ascii\_uppercase, src\_str[1:] + src\_str[:1]
4. String.ascii\_uppercase, src\_str[1:] + src\_str[:]