Syntax Test - pdf version

Answer all questions and submit the answers as an email to **semt-student-enquiries@bristol.ac.uk**
Your email must be received by 5pm, 17/11/23!

There are 15 questions
(5 sections, 3 questions in each section)

Questions 1-12 are multiple choice, choose the letter (A-D) that corresponds to the correct solution

Questions 13-15 require a single numerical value (line number) as the answer

1. Which of these is a correct definition of an iterable object?

   A. a whole number
   B. a sequence of values
   C. an object whose individual element(s) can be addressed using an index or key
   D. the values that an operator acts on

2. Which of these is a correct definition of an ordered object?

   A. a whole number
   B. a sequence of values
   C. an object whose individual element(s) can be addressed using an index or key
   D. the values that an operator acts on

3. Which of these is a correct definition of indefinite iteration?
   A. number of repetitions is specified explicitly in advance
   B. the code block executes until some condition is met
   C. a sequence of values
   D. a data structure

4. What should the outcome of this code be?

```
A = False
B = False
C = A != B
print(C)
```

A. True
B. False
C. ‘A’
D. ‘B’

5. What should the outcome of this code be?

```
A = [1, 2, 3]
A[1] = A[1]-1
print(A)
```

A. 1
B. [0, 1, 3]
C. [1, 1, 3]
D. [0]

6. What should the outcome of this code be?

```
A = [ i for i in range(4) if i % 2 == 0]
```

A. [0, 1, 2, 3]
B. [0, 2]
C. [0, 2, 4]
D. [1, 3]

7. What does this operator/operation do?

```
a >= b
```

A. Checks if the value of a is greater than b
B. Checks if the value of b is greater than or equal to a
C. Checks if the value of a is greater than or equal to b
D. Checks if the value of a is equal to b

8. What does this operator/operation do?

```
a % b
```

A. Floor divide a by b
B. Divide a by b
C. Modulo of a and b (the remainder after dividing a by b)
D. a multiplied by b

9. What does this operator/operation do?

```
a // b
```

A. Floor divide a by b
B. Divide a by b
C. Modulo of a divided by b (the remainder after dividing a by b)
D. a multiplied by b

10. Insert the missing value ____

```
ingredients = {“Bread”:2, “Cheese”:3, “Garlic”:0.5}
total = 0

for n in ingredients.____():
    total += n

print(total)
```

A. key
B. keys
C. value
D. Values

11. Insert the missing value ____

```
numbers = [5, 6, 4, 4, 3]
total = 0

for n in numbers:
    if n%2 == 0:
        total ____ 1

print(total)
```

Output: 2

A. -=
B. =-
C. =+
D. +=

12. Insert the missing value ____

```
word_list = []

# Take a sentence and add each word to the word list
sentence = 'How is the weather?'
for word in sentence:
    word_list.____(word)
print(word_list)
```

Output: `['How', 'is', 'the', 'weather?']`

A. add
B. append
C. list
D. Join

13. Enter the line number of the line that will generate a syntax error. Line numbering starts with index 1

```
fondue = ["Bread", "Cheese", "Garlic"]
total = 0
for item in fondue:
    if len(item) = 5:
        total += len(item)
print(total)
```

14. Enter the line number of the line that will generate a syntax error. Line numbering starts with index 1

```
number = input(Pick an integer:)
# sum all the numbers up to the number
sum = 0
for n in range(number):
    sum = sum + n
print(sum)
```

15. Enter the line number of the line that will generate a syntax error. Line numbering starts with index 1

```
word = "hello world"
vowels = [a, e, i, o, u]
for letter in word:
    if letter in vowels
        print(word)
```