CS 1101 Graded-Quiz Unit 3

Programming Fundamentals (University of the People)

Graded Quiz Unit 3

Question 1

Correct

Mark 1.00 out of 1.00

Flag question

Question text

What output will the following Python statement produce?

>>> print ((1+1)**(5-2))

Select one:

a. 16

b. 8

c. 4

d. 2

Feedback

The correct answer is: 8

Question 2

Correct

Mark 1.00 out of 1.00

Flag question

Question text

What do we call the value provided to a function when the function is called (which is assigned to the corresponding **parameter** in the function)?

Select one:

a. argument

b. return value

- c. method
- d. the special value None
- e. global variable

Feedback

Your answer is correct.

The correct answer is: argument

Question 3

Correct
Mark 1.00 out of 1.00

Flag question

Question text

When a Python function is called, inside the function, the arguments are assigned to variables called **parameters**.

Select one:

- True
- False

Feedback

The correct answer is 'True'.

Question 4

Correct
Mark 1.00 out of 1.00

Flag question

Question text

What is the output of the following Python 3 statements?

```
x=2
y=1
if x == y:
    print (x, "and", y, "are equal")
else:
```

```
if x < y:
    print (x, "is less than", y)
else:
    print (x, "is greater than", y)
```

Select one:

- a. 1 and 2 are equal
- b. 1 is less than 2
- c. 1 is greater than 2
- d. 2 is greater than 1 ✓

Feedback

Your answer is correct.

The correct answer is: 2 is greater than 1

Question 5

Correct

Mark 1.00 out of 1.00

Flag question

Question text

What output will the following Python statement produce?

```
>>> print (2*3-1)
```

Select one:

- a. 6
- b. 5 ✓
- c. 4
- d. 3

Feedback

The correct answer is: 5

Question 6

Correct

Mark 1.00 out of 1.00

Flag question

Question text

What output will the following Python statements produce?

```
>>> percentage = ( 60.0 * 100.0) / 55.0
>>> print (percentage)
```

Select one:

a. percentage

b. 109

c. 109.0909090909091

d. 109.0

Feedback

The correct answer is: 109.0909090909091

Question 7

Correct

Mark 1.00 out of 1.00

Flag question

Question text

Learning to debug can be frustrating, but it is a valuable skill that is useful for many activities beyond programming.

Select one:

True

False

Feedback

The correct answer is 'True'.

Question 8

Correct

Mark 1.00 out of 1.00

Flag question

Question text

What output will the following Python statement produce?

>>> print (2 * (3-1))

Select one:

a. 6

b. 5

c. 4

d. 3

Feedback

The correct answer is: 4

Question 9

Correct

Mark 1.00 out of 1.00

Flag question

Question text

The % or modulus operator returns the remainder from dividing two numbers.

Select one:

True

False

Feedback

The correct answer is 'True'.

Question 10

Correct

Mark 1.00 out of 1.00

Flag question

Question text

What output will the following Python 3 statement produce?

>>> print (1,000,000)

Select one:

a. 1.0

b. 1,000,000

c. 1 0 0

d. Error invalid type

Feedback

The correct answer is: 1 0 0

Question 11

Correct

Mark 1.00 out of 1.00

Flag question

Question text

A **program** is a sequence of instructions that specifies how to perform a computation.

Select one:

True

False

Feedback

The correct answer is 'True'.

Question 12

Correct

Mark 1.00 out of 1.00

Flag question

Question text

Python functions may or may not take arguments and may or may not return a result.

Select one:

- (•) True
- ( ) False

Feedback

The correct answer is 'True'.

Question 13

Correct

Mark 1.00 out of 1.00

Flag question

Question text

Match concepts with their definition!

Any one of the languages that people have designed for specific purposes, such as representing mathematical ideas or computer programs; all programming languages are this kind of languages.	Answer 1: formal language
Any one of the languages that people speak that evolved naturally.	Answer 2: natural language
An error that does not occur until the program has started to execute but that prevents the program from continuing.	Answer 3: runtime error
An error in a program that makes it do something other than what the programmer intended.	Answer 4: semantic error

The meaning of a program.

Answer 5: semantics

The structure of a program.

Answer 6: syntax

An error in a program that makes it impossible to parse — and therefore impossible to interpret.

Answer 7: syntax error

One of the basic elements of the syntactic structure of a program, analogous to a word in a natural language.

Answer 8: token

Feedback

The correct answer is: Any one of the languages that people have designed for specific purposes, such as representing mathematical ideas or computer programs; all programming languages are this kind of languages. → formal language, Any one of the languages that people speak that evolved naturally. → natural language, An error that does not occur until the program has started to execute but that prevents the program from continuing. → runtime error, An error in a program that makes it do something other than what the programmer intended. → semantic error, The meaning of a program. → semantics, The structure of a program. → syntax, An error in a program that makes it impossible to parse — and therefore impossible to interpret. → syntax error, One of the basic elements of the syntactic structure of a program, analogous to a word in a natural language. → token

Question 14

Correct

Mark 1.00 out of 1.00

Flag question

Question text

When defining a Python function that has no parameters, the parentheses that follow the function's name are optional.

Select one:

- True
- False

Feedback

The correct answer is 'False'.

Question 15

Correct

Mark 1.00 out of 1.00

Flag question

Question text

What is the output of the following Python statements?

```
def recurse(a):
    if (a == 1):
        print(a)
    else:
        recurse(a)

recurse(1)
```

Select one:

a. 0

b. 1

c. no output

d. RuntimeError: maximum recursion depth exceeded

Feedback

Your answer is correct.

The correct answer is: 1

Question 16

Correct

Mark 1.00 out of 1.00

Flag question

Question text

What output will the following Python statements produce?

```
>>> n = 17
>>> print (n)
```

Select one:

- a. 0
- b. 17.0
- c. n
- d. 17

Feedback

The correct answer is: 17

Question 17

Correct
Mark 1.00 out of 1.00

Flag question

Question text

In Python, the expression "a**(b**c)" is the same as "(a**b)**c".

Select one:

- True
- False

Feedback

The correct answer is 'False'.

Question 18

Correct
Mark 1.00 out of 1.00

Flag question

Question text

Match concepts with their definition!

To join two operands end-to-end.

Answer 1: concatenate

What the Python interpreter does to an expression to find its value.

Answer 2: evaluate

A combination of variables, operators, and values that represents a single result value.

Answer 3: expression

A reserved word that is used by the interpreter to parse programs.

Answer 4: keyword

A special symbol that represents a simple computation like addition, multiplication, or string concatenation.

Answer 5: operator

A unit of code that the Python interpreter can execute.

Answer 6: statement

A name that refers to a value.

Answer 7: variable

Feedback

The correct answer is: To join two operands end-to-end. → concatenate, What the Python interpreter does to an expression to find its value. → evaluate, A combination of variables, operators, and values that represents a single result value. → expression, A reserved word that is used by the interpreter to parse programs. → keyword, A special symbol that represents a simple computation like addition, multiplication, or string concatenation. → operator, A unit of code that the Python interpreter can execute. → statement, A name that refers to a value. → variable

Question 19

Correct

Mark 1.00 out of 1.00

Flag question

Question text

Consider the following text from a Python interpreter.

```
>>> print(2 + 2)
4
```

What is the text "print" called?

Select one:

- a. a function
- b. an operator
- c. a prompt
- d. a statement
- e. a value

Feedback

Your answer is correct.

The correct answer is: a function

Question 20

Correct

Mark 1.00 out of 1.00

Flag question

Question text

Which of the following is an **invalid** Python assignment statement?

Select one:

- a. a = b = 123
- b. '3' = 3
- c. x = int("123")
- d. y = None
- e. z = "hi" * 10

Feedback

Your answer is correct.

The correct answer is: '3' = 3