
Question 1

10 / 10

What is the keyword we use in Python to avoid an infinite loop?

Hide answer choices

Break

Correct answer

Return

Next

Print

Question 2

10 / 10

we create a list: `v = [1,2,3,4]`

What would be the result of the following code? `len(v)`

Hide answer choices

4

Correct answer

6

5

3

Question 3

10 / 10

Simulation is an appropriate tool when...

Hide answer choices

We want to perform a "what if..." analysis

Correct answer

We want to do direct experimentation

We want an actual disruption of the system

All the options are correct

Question 4

10 / 10

How many nested loops can we create in Python?

Hide answer choices

As many as we want, always trying to reduce the computational cost

Correct answer

Only two, i and j

As we have seen in class, Python does not support nested loops

None, that's crazy

Question 5

10 / 10

In a system, the collection of variables necessary to describe it at any time point is called

Hide answer choices

State

Correct answer

List

Attribute

Event

Question 6

10 / 10

How do we call "n" in the example you can see below? `def myf(n = 10): print(n)`

Hide answer choices

An optional argument

Correct answer

A required argument

A printable parameter

An adjustable parameter

Question 7

10 / 10

A system is a set of related...

Hide answer choices

Entities or resources

Correct answer

Attributes

States

Events

Question 8

10 / 10

During a simulation study, an instant of time where the state of the system changes is called

Hide answer choices

Event

Correct answer

Activity

Delay

Clock

Question 9

10 / 10

Given this vector: `x = np.arange(1,11)`, what would be the result of the following line of code? `sum(x>5)`

Hide answer choices

5

Correct answer

10

55

25

Question 10

10 / 10

Which of the following is not a logical or relational operator in Python?

Hide answer choices

/

Correct ans

|

||

!

Question 11

10 / 10

What would be the result of adding the two following lists?

a = [1,2,3]

b = [4,5,6]

a+b?

Hide answer choices

[5,7,9]

[[1,2,3],[4,5,6]]

[1,2,3,4,5,6]

Correct ans

21

What is the output of this code: `np.repeat(np.array([1,2,3,4]),2)`

Hide answer choices

1 2 3 4 1 2 3 4

1 1 2 2 3 3 4 4

Correct ans

2 4 6 8

1 4 1 4

Question 13

10 / 10

How can we get help on a particular function in Python?

Hide answer choices

?function_name

Correct ans

??function_name

function_name(help)

function_name(help.search)

Question 14

10 / 10

How is "TRUE" coded in Python?

Hide answer choices

1

Correct ans

0

0010

T

Question 15

10 / 10

Which of the following is not a type of Simulation

Hide answer choices

Direct Simulation

Correct ans

Discrete-Events Simulation

Stochastic Simulation

Dynamic Simulation

Question 16

10 / 10

Which of the following is a continuous system?

Hide answer choices

Money available in an account

Correct ans

Available ATMs

Granted loans

Number of followers in a fan page

Question 17

10 / 10

How can we access the element that is in the second column and third row of a numpy matrix "M"?

Hide answer choices

M[2,1]

Correct answer

M[3][2]

M[2:3]

M[[2][3]]

Question 18

10 / 10

Which of the following can be simulated through a static model?

Hide answer choices

Load capacity of a ship

Correct answer

Wind speed

Machine energy consumption

People in a queue

Question 19

10 / 10

Any Simulation Scientific Report should allow the Simulation to be...

Hide answer choices

Replicated

Correct ans

Shared

Enjoyed

Analysed

Question 20

10 / 10

Which one of the following is a *float* in Python?

Hide answer choices

2.5

Correct ans

1

22

"aa"

Question 21

10 / 10

How many conditions can we introduce in a Python program?

Hide answer choices

As many as we want

Correct answer

Only two, if and else

Two, as long as we use the ifelse function

Up to three conditions, if, else, and else if

Question 22

10 / 10

What function do we use to get some of the most important statistics that describe the info we have in a dataframe?

Hide answer choices

df.summary()

df.str()

df.describe()

Correct answer

df.info()

Question 23

10 / 10

Which of the following codes allows us to access the fourth element of a vector "v"?

Hide answer choices

v[3]

Correct ans

v(3)

v{4}

v[[3]]

Question 24

10 / 10

In numpy we work with atomic vectors, what does this mean?

Hide answer choices

That vectors can only store one type of data

Correct ans

That the vectors are small in size

That vectors share different types of data

That the data type is preset for any vector