Python Pre-Test

Firia Labs - Programming with CodeX

* lr	dicates required question	
1.	First and last name *	1 point
2.	What grade are you in? *	1 point
	Mark only one oval. Grade 9 Grade 10	
	Grade 11 Grade 12 Other:	
3.	What state do you live in? *	1 point
F	ython questions	

> What does the "import" command do? * 1 point from codex import * from time import sleep import random Mark only one oval. Allows you to use the CodeX, time and random numbers Moves the code to a different programming environmnet Provides access to pre-built functions and methods in coding libraries Enables object-oriented programming Which of these tips is NOT something that makes your code more readable? * 1 point 5. Mark only one oval. Variables names that are just one or two letters, like 'ab' or 'xy' Blank lines in the code Comments that explain the code Consistent 4-space indenting in code blocks 6. What do you expect the following code to do? * 1 point display.show(pics.HEART) display.show(pics.HAPPY)

- Display each image for about 1 second each
- Display the heart quickly and then the happy face
- Displays the heart only
- Displays the happy face only

/.	vvnat does the code do? *	1 point
	delay = 1 Mark only one oval.	
	Puts the CPU into sleep mode for 1 second Assigns the value 1 to a variable named 'delay' Delays program execution for 1 second Sets the parameter to 1	
8.	Which of the following is NOT a standard Python type? *	1 point
	Mark only one oval.	
	'text'	
	int'	
	'float'	
	'str'	
9.	What data type is num = 5	1 point
	Mark only one oval.	
	float	
	Boolean	
	integer	
	string	
	list	

10.	What data type is num = 4.3	1 point
	Mark only one oval.	
	float	
	Boolean	
	integer	
	string	
	list	
11	NAVIo at alata tura dia abaica a Eular	
11.	What data type is choice = False	1 point
	Mark only one oval.	
	float	
	Boolean	
	integer	
	string	
	list	
12.	What data type is name = 'Angel'	1 point
	Mark only one oval.	
	float	
	Boolean	
	integer	
	string	
	list	

13.	What data type is my_colors = ['Red', 'Blue', 'Green', 'White']	1 point
	Mark only one oval.	
	float	
	Boolean	
	integer	
	string	
	list	
14.	What will happen when this code is run? *	1 point
	<pre>x = False if x: display.print("Yes") else: display.print("No") Mark only one oval.</pre>	
	First 'Yes' will print, and the 'No' will print on the display Nothing there is an error in the code 'Yes' will print on the display 'No' will print on the display	

15. What will happen when this code is run? *

1 point

```
choice = 2
if choice == 0:
    display.show(pics.HAPPY)
if choice == 1:
    display.show(pics.SAD)
if choice == 2:
    display.show(pics.TIARA)
if choice == 3:
    display.show(pics.TSHIRT)
```

Mark only one oval.

- All pictures will be displayed, one after the other.
- Only the Happy face will display
- Only the Tiara will display
- The Tiara and then the Tshirt will be displayed
- 16. What will happen when this code is run? *

1 point

```
value = 25
if value < 20:
    number = 1
if value < 30:
    number = 2
if value < 40:
    number = 3</pre>
```

- () number = 1
- () number = 2
- number = 3
- numer = 2 and then number = 3

17. What will happen when this code is run? *

1 point

```
value = 25
if value < 20:
    number = 1
elif value < 30:
    number = 2
else:
    number = 3</pre>
```

Mark only one oval.

- number = 1
- number = 2
- number = 3
- numer = 2 and then number = 3
- 18. What line of code initializes, or defines, a counter variable? *

1 point

- count = 0
- count = 1
- count = count + 1
- _____ if count == 1:
- def count = 0

19. What line of code increments a counter? *

1 point

Mark only one oval.

	count =	r
ノ	Count -	L

____ count = 1

count = count + 1

if count == 1:

def count = 1

20. What line of code compares a counter to 1? *

1 point

Mark only one oval.

____ count = 0

count = 1

count = count + 1

if count == 1:

21. What does the following line of code do? *

1 point

Mark only one oval.

decreases the delay variable by 0.02

increases the delay variable by 0.02

changes the value of delay to 0.02

causes an error in the code

Python Pre-Test

22.	What are the	possible values	num, given for the	following code? *
		P	9	

1 point

num	=	random.	rand	range	(10)
					\

Mark only one oval.

1, 2, 3, 4, 5, 6, 7, 8, 9, 10

0, 1, 2, 3, 4, 5, 6, 7, 8, 9

0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10

an error will occur because you must give the code a beginning and ending value

23. What is the index of the first item in a list? *

1 point

Mark only one oval.

0 (

____1

____ A

It depends on the list

24. What is the index of the last item in a list? *

1 point

Mark only one oval.

len(my_list)

len(my_list) - 1

 \bigcirc z

It depends on the list

25. What is the value of 'color' after the code is executed? *

1 point

```
my_colors = ['red', 'blue', 'green', 'yellow']
color = my_colors[2]

Mark only one oval.

    red
    blue
    green
    yellow
```

26. What condition stops the loop in this code? *

an error will happen

1 point

```
index = 0
while index < 8:
    index = index + 1
    display.show('continue')</pre>
```

The loop stops when 'index' reaches 0
The loop stops when 'index' reaches 8
It is an infinite loop and never stops
The statement 'index = index + 1' ends the loop

27. What does the 'break' command do? *

1 point

```
while True:

if buttson.was_pressed(BTN_A):

break
```

Mark only one oval.

Breaks out of the loop
Causes the code to stop
Breaks out of the if statement

Crashes the program

28. The following code is an example of: *

1 point

```
delay = 0.04
num = random.randrange(8)
color = my_colors[num]
```

- iteration
- selection
- sequencing
- ____ randomization

29. The following code is an example of: *

1 point

```
if state == 1:
    delay = 0.04
    num = random.randrange(8)
    color = my_colors[num]
```

Mark only one oval.

- iteration
- selection
- sequencing
- nandomization
- 30. The following code is an example of: *

1 point

```
while count > 0:
    display.show(my_picc[count])
    sleep(delay)
    delay = delay + 0.005
    index = index + 1
```

- iteration
- () selection
- sequencing
- () randomization

31.	What is a parameter? *	1 point
	Mark only one oval.	
	A counter	
	A type of loop	
	A value supplied to a function when it is called	
	A value passed to a function when it is called	
32.	What is an argument? *	1 point
	Mark only one oval.	
	A counter	
	A type of loop	
	A value supplied to a function when it is called	
	A value passed to a function when it is called	
33.	What is a global variable? *	1 point
	Mark only one oval.	
	A variable created outside of a function that can be seen and used throughout program	the
	A variable that is created and used in a condition or loop	
	A variable that is created inside a function and only exists while the function is running	
	A variable that is created specifically for a list	

34.	What is a local variable? *	1 point
	Mark only one oval.	
	A variable created outside of a function that can be seen and used throughour program	t the
	A variable that is created and used in a condition or loop	
	A variable that is created inside a function and only exists while the function is	S
	A variable that is created specifically for a list	
35.	When do you need to use the 'global' command, like shown below? *	1 point
	def show_random_die(delay): global num Mark only one oval.	
	Every time you declare a global variable	
	When you use a global variable in a condition or loop	
	When you change the value of a global variable outside a function	
	When you change the value of global variable inside a function	
	when you change the value of global variable inside a function	
36.	Which statement is NOT true about functions? *	1 point
	Mark only one oval.	
	Functions can only use local variables.	
	You can reuse code by calling functions multiple times.	
	Functions help keep code organized and readable.	
	It is easier to make a change to code in one function than in repeated code.	

37. What are the final colors of the pixels after the code is run? * 1 point pixels.set([BLUE, BLUE, BLUE, BLUE]) pixels.set(2, RED) Mark only one oval. BLUE, RED, BLUE, BLUE OFF, RED, OFF, OFF BLUE, BLUE, RED, BLUE OFF, OFF, RED, OFF RED, RED, RED, RED 38. What is the correct function CALL for the function below? * 1 point def show random arrow(index): arrow = random.randrange(8) display.show(MY ARROW LIST[arrow]) Mark only one oval. index = show_random_arrow(index) def show_random_arrow(index): show_random_arrow(index) show_random_arrow()

39. What is the correct function CALL for the function below? *

1 point

```
def assign_cost(price, shirts):
    cost = price * shirts
    return cost
```

Mark only one oval.

- cost = assign_cost(price, shirts)
 def assign_cost(price, shirts):
 assign_cost(price, shirts)
 assign_cost(cost)
- 40. What is the error in the code below? *

1 point

```
index = 0
while Index < 8:
   index = index + 1
   display.show('continue')</pre>
```

- The index variable is misspelled.
- The indenting is not correct.
- The loop will never start.
- ____ The while loop block does not need a colon (:)

41. What is the error in the code below? *

1 point

```
while True:
    choice = 2
    if choice == 0:
    display.show(pics.HAPPY)
    if choice == 1:
    display.show(pics.SAD)
    if choice == 2:
    display.show(pics.TIARA)
```

Mark only one oval.

- The name choice can't be used as a variable.
 The indenting is not correct.
 The loop will never end.
 The while loop block does not need a colon (:)
- 42. What is the error in the code below? *

1 point

```
while True:
  choice = 2
  if choice == 0:
     display.show(pics.HAPPY)
  if choice == 1:
     display.show(pics.SAD)
  if choice == 2:
     display.show(pics.TIARA)
```

The assignment should be choice == 2
The indenting is not correct.
A = should be used instead of ==.
The if statements do not need a colon (:)

43. What is the error in the code below? *

The loop will never end.

1 point

```
index = 0
while index < 8
    index = index + 1
    display.show('continue')

Mark only one oval.

The index variable is misspelled.

The indenting is not correct.</pre>
```

The while loop block needs a colon (:)

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