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## **PP2 FinalEx V1**

17, 7 May 2023

This test has 25 questions. Each question equals 4 points. As a result, you will get a score on a hundred-point scale, in order to convert to points according to KBTU standards, you must multiply by 0.4.

© 90 minutes Total: 100 Points

- \* Required
- \* This form will record your name, please fill your name.

error

1.	* W	ere is the variable created correctly? e are asking about an answer option that will not give an error n starting the project * (4 Points)
	$\bigcirc$	int num = 2
	$\bigcirc$	No suitable option
	$\bigcirc$	num = float(2)
	$\bigcirc$	var num = 2
	$\bigcirc$	\$num = 2
2.	x = num	at will be the result of this code?  23  a = 0 if x > 10 else 11  at(num) * (4 Points)
	$\bigcirc$	0
	$\bigcirc$	23
	$\bigcirc$	10
	$\bigcirc$	11

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> 3. What will this code show? for j in 'Hi! I\'m mister Robert': if j == '': print("Found") break else: \ print ("Done") \* (4 Points) An error in the code "Found" and "Done" Found Done 4. How many libraries can be imported into one project? \* (4 Points) No more than 3 **Unlimited** amount No more than 10 No more than 5

5. Which library is responsible for the time? * (4 Points)
time
Olocaltime
Clock
Time
C. Which function wints consthing to the consolo? * (4 Deints)
6. Which function prints something to the console? * (4 Points)
write()
O log()
out()
print()
7. What will be shown as a result?  name = "John"  print('Hi, %s' % name) * (4 Points)
○ "Hi, name"
○ "Hi, "
("Hi, John")
Error

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8. How to get data from user? * (4 Points)
Use the input() method
Use the get() method
Use the cin() method
Use the read() method
<pre>9. What are the errors in the code below?   def factorial(n):     if n == 0:        return 1     else: return n * factorial(n - 1)     print(factorial(5)) * (4 Points)</pre>
A function cannot call itself
Return type must be specified
The function will always return 1
There are no errors in the code

10. What will this code show? for i in range(5): if i % 2 == 0: continue print(i) \* (4 Points) Error because i is not assigned Error due to invalid output Numbers: 1 and 3 Numbers: 1, 3 and 5 Numbers: 0, 2 and 4

11. a = 3for i in range(4): a += aWill there be an answer? \* (4 Points)

96

52

12

12. The	while loop is called: * (4 Points)
$\bigcirc$	There is no correct answer
$\bigcirc$	Loop with postcondition
$\bigcirc$	Loop with precondition
$\bigcirc$	Loop with parameter
13. Hov	many times will the loop run for k in range(7,12): * (4 Points)
13. How	
13. How	for k in range(7,12): * (4 Points)
13. How	for k in range(7,12): * (4 Points)
13. How	for k in range(7,12): * (4 Points) 4 3

14.	What will be the value	of the integ	er variable	"a"	after	the	execut	ion
	of this program fragme	ent?						

a = 4

for i in range(5):

a += i \* (4 Points)

- 20
- 10
- 15. Сколько раз исполнится цикл:

i=4

while i<10:

i=i+3 \* (4 Points)

- 10

16.	What is the name of the algorithms containing the repetition
	construction? * (4 Points)

branching

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(	)	CV	'CIIC	

Линейные

Рекурсивные

17. There is a tuple of the form T = (4, 2, 3). Which operation will cause the name T to refer to a tuple (1, 2, 3)? \* (4 Points)

T[0] = 1

T = (1) + T[1:]

T = (1,) + T[1:]

T.startswith(1)

18. What is the built-in function enumerate() used in Python for? \* (4 Points)

For simultaneous iteration over the elements themselves and their indices.

To determine the number of elements in a sequence.

To sort elements by id values.

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19.		at will the interpreter output for the following program (Python sion 3.6+)?
	ı	get_name_and_decades(name, age): print(f"My name is {name} and I'm {age / 10:.5f} decades old.") _name_and_decades("Leo", 31) * (4 Points)
	get_	_name_and_decades( Leo , 31) * (4 Folins)
	$\bigcirc$	My name is Leo and I'm 31.00000 decades old.
	$\bigcirc$	My name is Leo and I'm 3.1 decades old.
	$\bigcirc$	My name is {name} and I'm {age / 10:.5f} decades old.
	$\bigcirc$	My name is Leo and I'm 3.10000 decades old.
20	T+ ic	necessary to collect and display all unique words from a line of
20.	adve	necessary to collect and display all unique words from a line of ertising text. Which of the following Python data types is the best * (4 Points)
	$\bigcirc$	set
	$\bigcirc$	list
		tuple
		array
	$\bigcirc$	dict

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21. Recording of animals in the zoo is carried out using the list of dictionaries below. Which line of code will output a structure sorted in ascending order of animal ages?

```
animals = [ {'type': 'penguin', 'name': 'Stephanie', 'age': 8},
 {'type': 'elephant', 'name': 'Devon', 'age': 3},
 {'type': 'puma', 'name': 'Moe', 'age': 5}, ] * (4 Points)
```

- orted(animals, key='age')
- sorted(animals, key=lambda animal: animal['age'])
- Neither option is correct, two dictionaries cannot be compared with each other.
- orted(animals)
- 22. What will be the output of the following code? def f(a, \*pargs, \*\*kargs): print(a, pargs, kargs) f(1, 2, 3, x=4, y=5) \* (4 Points)
  - 1, 2, 3, {'x': 4, 'y': 5}
  - 1 (2, 3) {'x': 4, 'y': 5}
  - An exception will be thrown, after the colon it is necessary to go to a new line.
  - 1, 2, 3, 'x=4', 'y=5'
  - 1, 2, 3, 4, 5

23. How to list methods and attributes of x object? * (4 Poi
--

- () dir(x)
- help(x)
- info(x)
- ?x
- 24. What will the following code display?

- () [1] [2]
- An exception will be thrown: there are fewer elements in the list than variables.
- 0 102
- $\bigcirc 1[]2$
- 25. When declaring a class using the class statement, what is written in parentheses after the class name? \* (4 Points)
  - The names of the arguments accepted by the \_\_init\_\_ method.
  - The names of the arguments accepted by the class.
  - The names of the arguments accepted by the class.
  - Names of classes generated by this class.

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