Simulated	l Exam P	ython 1
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	Simulated Exam Python 1					
1.	What is a programming language?					
	Language spoken in everyday life.					
	☐ Language created by humans to write a program.					
	☐ Language used by the secret service					
	☐ Language that organizes work.					
2.	Which action is not part of a computer algorithm:					
	input and output					
	☐ Mathematical calculation					
	☐ Conditional execution and repetition					
	Reflexion and criticism					
3.	How does Python perform arithmetic operations: what is the result of the following expression? $2+(6+2)/(2**2)=$					
	× 2.5 × 4 × 6 × 5					
4.	What is not a Python value type?					
	× Int and float Pay × List × Boolean values and None × String					
	What is the type of the following variable (x):x='3'print(type(x))					
	× Int × float × str × boolean					
6. x=3 y=4 if x						
7.	Let a=50 and b=25. What are the values for the following logical operations: a>40 and b>40 a>0 and b>0 a>0 or b<0 b<0 or b<0 True, True, False, False False, True, False, True False, True, False, True False, True, True, False					

8. Why is the function "float()" used in the following program? import math r=float(input('radius')) V=(3/4)*math.pi*r**3 print(V) \square Because Variable r is an integer. ☐ Because we want to write a text with the result. ☐ Because *Input()* returns the input as a String value. \square Because we multiply variable r with a *float* multiply value. 9. Which output does the program produce? a=2a+=1print(a) × 3 × 2 × 1 × 4 10. What output does the program produce? $_{\rm X} = "$ for i in range(10 - 6): x += str(i)print(x)× 'iiii' × '0123' × '4444' × 6 11. What output does the program produce? i=1while i<3: i+=1print(i) **x** 1 × 2 × 3 × 4 12. What are the results of the following expressions? 1+1.0 1+'1' '1'+'1' $\times 2, 11, 2$ × 2.0, 'SyntaxError', '11' × 1, 1, '2' × 2, 'SyntaxError', 2

13. Why is there a 'SyntaxError' with the program:						
def countdown(n)						
while n>0:						
print(n)						
n=n-1						
print('Bang!')						
because the program has no indentation.						
 □ because the print function is missing a parenthesis. □ because variable n is a string. 						
because <i>while</i> is in an infinite loop.						
14. What is the output of the following program?						
my_list = ['x', 'y', 'z']						
my_list.append('a')						
empty_string = "						
for i in my_list:						
empty_string += i						
print(empty_string)						
\times 'xyz' \times 'a' \times 'xyza' \times ''						
15. Which output does the program produce? $print(type('a') == str \text{ and } 3.5 > 1)$						
× False × SyntaxError × 'a' and 3.5 ×True						
16. The following program should return the lexicographically largest letter of a word to be passed. Why does the following program not work?						
<pre>word = int(input('Which word should be checked? '))</pre>						
def greatestChar(long word):						
$\max \text{Char} = 2.5$						
for c in long_word:						
if $c > maxChar$:						
c = maxChar						
else:						
break						
greatest_char = greatestChar(word)						
☐ because the maxChar is a float value.						
because the for loop is dead.						
because the variable <i>word</i> should be a string value.						
because the variable <i>word</i> should be a float value.						

17.	What does the fol word=input('Word	lowing function do?					
	word=word.lower(
	i=0	J					
	for s in word:						
	if s in ['a','e','i'	' 'o' 'u']·					
	i+=1						
	print(i)						
	☐ The program says how long the word is. ☐ The program says how many letters are lowercase.						
	_	am says how many vowe					
	^ -	am pushes the letters into					
10 C	Siven the following Li	at—[[]without wafii acalea		, which element does the			
	ment List[1][1] expres		, Monty J,[23,03,41]]	, which element does the			
State	mont Elst[1][1] expres						
	× 'Python'	× 'refugeeks'	× 25	×63			
19. Iı	n which case the for lo	oop does not work:					
[for w in w	ord:					
[for w in ['a	a','b','c']:					
[for w in 4:						
[for w in ra	nge(4):					
20. V	Which result does the	function express with in	put b equals 20 .				
d	lef bmi_interpreter(b)	:					
	if b < 17.5:						
	print(b,' : underw	eight')					
	elif 18.5 <b<25:< th=""><th></th><th></th><th></th></b<25:<>						
	print(b,': normal')					
	else:						
	print(b, ': overwe	eight')					
[20 : normal						
[☐ 20: underweight						
[☐ 78.4 : overweight						
٦	5.1 : underweight						