Name:

Mr. Chen

# **Multiple Choice**

( <b>A</b> ) 1. Which	h of the following storage uni	t is closest to the size of a text	file with 1000 letters?	
A) 1 KB	B) 1 MB	C) 1 GB	D) 1 TB	
( <b>B</b> ) 2. Which of the following data usually cannot be stored as exact value in Python?  A) String  B) Floating-point numbers  C) Integer  D) Boolean				
( <b>D</b> ) 3. Which A) %	of the following symbol deno B) //	tes comment in Python? C) \$	D) #	
( <b>B</b> ) 4. The pr	•	the user from the following coolease enter a number")	de.	
What is a possible v	_	C) 5.5	<b>D)</b> 0	
( <b>C</b> ) 5. What is A) 1	the value of the expression 5 <b>B)</b> 3	6 + 4 // 6? C) 5	<b>D)</b> 9	
( <b>D</b> ) 6. What is A) 1	the value of the expression 5 <b>B)</b> 3	6 + 4 % 6? C) 5	<b>D)</b> 9	
( <b>C</b> ) 7. Which o	of the following word cannot b	e used as a variable name?  C) 5xy	D) _x	
<pre>( A ) 8. What is x = 25 if x &gt; 0:    print("&gt;0") elif x &gt; 10:    print("&gt;10") else:    print("&lt;0")</pre>	the output of the following co	de?		
<b>A) B)</b> >10	<b>C)</b> >0 >10	<b>D)</b> <0		
<pre>( D ) 9. What is x = 9 if x &gt; 0:   print("&gt;0") if x &gt; 10:   print("&gt;10") else:   print("&lt;0")</pre>	the output of the following co	de?		
<b>A)</b>	B)	C)	D)	
>0	<0	>0 >10	>0 <0	
( <b>D</b> ) 10. What is the output of the following code?  print("\\\"\"Hello\"/\\"")				
A) \\\"\"Hello\	"//\" B) \""Hell	lo"/" <b>C)</b> ""Hello"/"	D) \""Hello"//	

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( B ) 11. What is the output of the following code?
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# ( A ) 12. What is the output of the following code?

# 13. Write the output of y value after each of the print command.

$$y = 4$$
  
print('y =', y)  $y = 4$ 

$$y = 4$$

$$y = y + 3$$
  
print('y =', y)

$$y = 7$$

$$y = 49$$

$$y = 19$$

print('y =', y)

y \*\* 4

$$y = 3.0$$

#### 14. Write down the output of the following code:

## 11,14,17,20,

#### 15. Write down the output of the following code:

### Hi,Hi,Hi,Hi,Hi,

16. Write a segment of Python code to print all even numbers from 10 (inclusive) to 99(inclusive).

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Solution 1:

num = 10
while num <=99:
    print(num)
    num += 2</pre>
for num in range(10,100,2):
    print(num)
```

#### 17. Write a segment of Python code to do the following tasks:

- Ask the user to enter the number of customers (assume that the number will always be positive integer)
- 2. Enter the number of taxis needed to transport that many customers.

(Note: each taxi can transport a maximum of 4 people. Use the table below for reference)

# Customers	# Taxis
1	1
2	1
3	1
4	1
5	2
6	2
7	2

### Sample program run #1:

How many Customers? 8
You will need 2 taxis.

# Sample program run #2:

How many Customers? 9 You will need 3 taxis.

#### Sample program run #3:

How many Customers? 34 You will need 9 taxis.

```
n = int(input("How many customers? "))

if(n % 4 ==0):
  print("You will need " + str(n // 4) + "taxis.")

else:
  print("You will need " + str(n // 4 + 1) + "taxis.")
```