

## **FILE 01**

1.	1. What will be the output of the following code snippet?							
	def func(a, b):							
	return b if a == 0 else func(b % a, a) print(func(30, 75))							
	a) 10	b) 20	c) 15	d) 0				
	<u>Answer:</u> c) 15							
_		00 45 72 221						
2.								
	sorted_numbers = sort even = lambda a: a % 2							
		even, sorted_numbers)						
	print(type(even_numb	ersjj						
	a) Int	b) Filter	c) List	d) Tuple				
	<i>ω</i> , <b>.</b>		o, 2.00	u, .up.c				
	Answer: b) Filter							
3.	As what datatype are t	the *args stored, when إ	passed into					
	a) Tuple	b) List	c) Dictionary	d) none				
	Answer: a) Tuple							
4	cot1 - [14 2 FF]							
4.	set1 = {14, 3, 55}							
	set2 = {82, 49, 62}							
	set3={99,22,17}	ant 211						
	print(len(set1 + set2 + s	set3//						
	a) 105	b) 270	c) 0	d) Error				
	u, 200	2, = 1 0	<b>5, 5</b>	<i>u)</i> 2.7.0.				
	Answer: d) Error							
<i>5.</i>	What keyword is used	in Python to raise excep	tions?					
	a) raise	b) try	c) goto	d) except				
	Answer: a) raise							
_	Market a Cale of the							
6.	Which of the following	modules need to be im	ported to handle date ti	me computations in				
	Python?	h) data	c) datatime	d) time				
	a) timedate	b) date	c) datetime	d) time				
	Answer: c) datetime							



	print(4**3 + (7 + 5)**(	print(4**3 + (7 + 5)**(1 + 1))							
	a) 248	b) 169	c) 208	d) 233					
	<u>Answer:</u> c) 208								
8.	Which of the following functions converts date to corresponding time in Python?								
	a) strptime	b) strftime	c) both a) and b)	d) None					
	Answer: b) strftime								
The strftime function is used to convert a datetime object to a string with a specified									
	format. It takes the format as an argument and returns a string representation of the dat and time.								
	The strptime function, on the other hand, is used to parse a string and convert it to a								
	datetime object. It takes the string and the format as arguments and returns a datetime								
	object. So, to convert a date to a corresponding time in Python, you would use the strftime								
	function.	, 3	, ,	•					
9.	The python tuple is	in nature.							
	a) mutable	b)immutable	c)unchangeable	d) none					
	Answer: b)immutable	?							
<ol> <li>The is a built-in function that returns a range object that consists series of intended numbers, which</li> </ol>									
	we can iterate using a	for loop.							
	A. range()	B. se	et()						
	C. dictionary{}	D. N	one of the mentioned	l above					
	Answer: A. range()								
11.	Amongst which of the	following is a function	n which does not hav	e any name?					
	A. Del function	B. SI	now function						
	C. Lambda function	D. N	one of the mentioned	d above					
	Answer: C. Lambda fu	unction							
	Lambda functions are anonymous functions in Python, which means they do not have a name. They are created using the lambda keyword followed by the function's input arguments and output expression. Lambda functions are often used when you need a small								
	arguments and output expression. Lambda junctions are often used when you need a small								

function for a short period of time and don't want to define a named function.

7. What will be the output of the following code snippet?



<i>12.</i>	The	modu	le P	Pickle	is	used	to	
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A. Serializing Python object structure

C. Both A and B

B. De-serializing Python object structure

D. None of the mentioned above

Answer: C. Both A and B

The pickle module in Python is used for serializing and de-serializing Python object structures.

Serialization refers to the process of converting an object in memory to a byte stream that can be stored on disk or transmitted over a network. De-serialization is the reverse process of creating an object in memory from a byte stream.

The pickle module can serialize and de-serialize a wide variety of Python data types, including lists, tuples, dictionaries, sets, classes, functions, and more. This makes it a very powerful tool for saving and restoring complex data structures in Python.

So, to summarize, the pickle module is used to serialize Python object structures into byte streams and de-serialize byte streams back into Python objects.

13. Amongst which of the following is / are the method of convert Python objects for writing data in

a binary file?

A. set() method

B. dump() method

C. load() method

D. None of the mentioned above

Answer: B. dump() method

14. Amongst which of the following is / are the method used to unpickling data from a binary file?

A. load()

B. set() method

C. dump() method

D. None of the mentioned above

Answer: A. load()

15. A text file contains only textual information consisting of \_\_\_\_.

A. Alphabets

**B. Numbers** 

C. Special symbols

D. All of the mentioned above

Answer: D. All of the mentioned above

16. Which Python code could replace the ellipsis (...) below to get the following output? (Select all that apply.)

```
captains = {
"Enterprise": "Picard",
"Voyager": "Janeway",
"Defiant": "Sisko",
```



```
Enterprise Picard,
   Voyager Janeway
   Defiant Sisko
   a) for ship, captain in captains.items():
   print(ship, captain)
   b) for ship in captains:
   print(ship, captains[ship])
   c) for ship in captains:
   print(ship, captains)
   d) both a and b.
   Answer: d) both a and b
17. Which of the following lines of code will create an empty dictionary named captains?
   a) captains = {dict}
                                           b) type(captains)
   c) captains.dict()
                                           d) captains = \{\}
   Answer: d) captains = {}
18. Now you have your empty dictionary named captains. It's time to add some data!
   Specifically, you want to add the key-value pairs "Enterprise": "Picard", "Voyager":
    "Janeway",
   and "Defiant": "Sisko".
   Which of the following code snippets will successfully add these key-value pairs to the
   existing captains dictionary?
   a) captains{"Enterprise" = "Picard"}
       captains{"Voyager" = "Janeway"}
       captains{"Defiant" = "Sisko"}
   b) captains["Enterprise"] = "Picard"
        captains["Voyager"] = "Janeway"
        captains["Defiant"] = "Sisko"
   c) captains = {
        "Enterprise": "Picard",
        "Voyager": "Janeway",
        "Defiant": "Sisko",
   d) None of the above
   Answer: b&c
```



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19. You're really building out the Federation Starfleet now! Here's what you have:
    captains = {
    "Enterprise": "Picard",
    "Voyager": "Janeway",
    "Defiant": "Sisko",
    "Discovery": "unknown",
    Now, say you want to display the ship and captain names contained in the dictionary, but
    you also
    want to provide some additional context. How could you do it?
    a) for item in captains.items():
    print(f"The [ship] is captained by [captain].")
    b) for ship, captain in captains.items():
    print(f"The {ship} is captained by {captain}.")
    c) for captain, ship in captains.items():
    print(f"The {ship} is captained by {captain}.")
    d) All are correct
    <u>Answer:</u> b) for ship, captain in captains.items():
    print(f"The {ship} is captained by {captain}.")
20. You've created a dictionary, added data, checked for the existence of keys, and iterated
    over it with a for loop. Now you're ready to delete a key from this dictionary:
    captains = {
    "Enterprise": "Picard",
    "Voyager": "Janeway",
    "Defiant": "Sisko",
    "Discovery": "unknown",
    What statement will remove the entry for the key "Discovery"?
    a) del captains
    b) captains.remove()
    c) del captains["Discovery"]
    d) captains["Discovery"].pop
    Answer: c) del captains["Discovery"]
```