

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))
```

```
2 numbers = (4, 7, 19, 2, 89, 45, 72, 22)  
sorted_numbers = sorted(numbers)even = lambda a: a % 2 == 0  
even_numbers = filter(even, sorted_numbers)print(type(even_numbers))
```

Int
Filter
List
Tuple

3 As what datatype are the *args stored, when passed into

Tuple
List
Dictionary
none

```
4) set1 = {14, 3, 55}  
set2 = {82, 49, 62}set3={99,22,17}
```

```
print(len(set1 + set2 + set3))
```

- a) 105
- b) 270
- 0
- Error

What keyword is used in Python to raise exceptions?

- raise
- try
- goto
- except

Which of the following modules need to be imported to handle date time computations in Python?

- timedate
- date
- datetime
- time

What will be the output of the following code snippet?

- ```
print(4**3 + (7 + 5)**(1 + 1))
```
- a) 248
  - b) 169
  - c) 208
  - d) 233

Which of the following functions converts date to corresponding time in Python?

- strptime
- strftime
- both a) and b)
- None

The python tuple is\_\_\_\_\_in nature.

- mutable
- b)immutable

unchangeable  
none

10)

The\_\_\_is a built-in function that returns a range object that consists series of integer numbers, which we can iterate using a for loop.

range()  
set()  
dictionary{ }  
None of the mentioned above

Question 11

Amongst which of the following is a function which does not have any name?

Del function  
Show function  
Lambda function  
None of the mentioned above

Question 12

The module Pickle is used to\_\_\_.

Serializing Python object structure  
De-serializing Python object structure  
Both A and B  
None of the mentioned above

Question 13

Amongst which of the following is / are the method of convert Python objects for writing data in a binary file?

set() method  
dump() method  
load() method  
None of the mentioned above

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

load()  
set() method  
dump() method  
None of the mentioned above

15.

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

Alphabets  
Numbers  
Special symbols  
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

```
 for ship, captain in captains.items():print(ship, captain)
 for ship in captains: print(ship, captains[ship])
for ship in captains:
```

```
print(ship, captains)
```

both a and b

17)

Which of the following lines of code will create an empty dictionary named `captains`?

```
captains = {dict}
type(captains)
captains.dict()
captains = {}
```

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?

```
captains{"Enterprise" = "Picard"}captains{"Voyager" = "Janeway"}captains{"Defiant" = "Sisko"}
```

```
captains["Enterprise"] = "Picard"captains["Voyager"] = "Janeway"captains["Defiant"] = "Sisko"
```

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

None of the above

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?

```
for item in captains.items():
```

```
 print(f"The [ship] is captained by [captain].")
```

```
for ship, captain in captains.items(): print(f"The {ship} is captained by {captain}.")
for captain, ship in captains.items(): print(f"The {ship} is captained by {captain}.")
All are correct
```

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", }
```

**ANSWER**  
**ANSWER**

1. Answer: c) 15
2. Answer: c) List
3. Answer: a) Tuple
4. Answer: c) 0
5. Answer: a) raise
6. Answer: c) datetime
7. Answer: b) 169
8. Answer: b) strftime
9. Answer: b) immutable
10. Answer: A. range()
11. Answer: C. Lambda function
12. Answer: C. Both A and B
13. Answer: B. dump() method
14. Answer: A. load()
15. Answer: D. All of the mentioned above
16. Answer: d) both a and b
17. Answer: d) captains = { }
18. Answer: b) captains["Enterprise"] = "Picard"  
captains["Voyager"] = "Janeway" captains["Defiant"] =  
"Sisko"
19. Answer: b) for ship, captain in captains.items():  
print(f"The {ship} is captained by {captain}.)
20. Answer: c) del captains["Discovery"]