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 Ans: c) 15. 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)) a) Int b) Filter c) List d) Tuple Ans: b) Filter. 3) As what datatype are the *args stored, when passed into a) Tuple b) List c) Dictionary d) none Ans: a) Tuple 4) $set1 = \{14, 3, 55\}$ $set2 = \{82, 49, 62\}$

set3={99,22,17}

print(le	en(set1 + set2 + set3))
b) c)	105 270 0 Error
Ans: d)	Error
5) Wha	t keyword is used in Python to raise exceptions?
a) raise	
b) try	
c) goto	
d) exce	pt
Ans: a)	raise
6) Whice Python's	ch of the following modules need to be imported to handle date time computations in
a) time	date
b) date	
c) datet	ime
d) time	
Ans	c) datetime
7) Wha	t will be the output of the following code snippet?
print(4	**3 + (7 + 5)**(1 + 1))
c)	248 169 208 233
Ans: c)	208
8) Which	ch of the following functions converts date to corresponding time in Python?
a) strpti	me
b) strfti	me
c) both	a) and b)
d) None	

Ans: a) strptime

- 9) The python tuple is _____in nature.
- a) mutable
- b)immutable
- c) unchangeable
- d) none

Ans: b) immutable

10. The ____ is a built-in function that returns a range object that consists series of integer numbers, whichwe can iterate using a for loop.
A. range()
B. set()
C. dictionary{}

Ans: a) range()

Question 11 Amongst which of the following is a function which does not have any name?

- A. Del function
- B. Show function
- C. Lambda function
- D. None of the mentioned above

D. None of the mentioned above

Ans: c) Lambda function

Question 12 The module Pickle is used to_____.

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

Ans: c) Both A and B

Question 13 Amongst which of the following is / are the method of convert Python objects for writing data ina binary file?

- A. set() method
- B. dump() method
- C. load() method
- D. None of the mentioned above

Ans: b) dump() method

14.	Amongst whi	ich of the follow	ing is / are	the method us	ed to unpicklin	g data from a	a binary file?

- A. load()
- B. set() method
- C. dump() method
- D. None of the mentioned above

Ans: 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

Ans: 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

Ans: a) for ship, captain in captains.items():print(ship, captain

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 = {}
```

```
Ans: 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

Ans: c)

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():
<pre>print(f"The {ship} is captained by {captain}.")</pre>
c) for captain, ship in captains.items():
<pre>print(f"The {ship} is captained by {captain}.")</pre>
d) All are correct
Ans: 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 witha 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 captainsb) captains.remove()c) del captains["Discovery"]d) captains["Discovery"].pop()

Ans: c) del captains["Discovery"]