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(len(set1 + set2 + set3))

a) 105

b) 270

c) 0

d) Error

ans- d)error

5) What keyword is used in Python to raise exceptions?

a) raise

b) try

c) goto

d) except

ans-a)raise

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

a) timedate

b) date

c) datetime

d) time

ans-c) datetime

7) 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

ans-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

ans-b)strftime

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, which

we can iterate using a for loop.

A. range()

B. set()

C. dictionary{}

D. None of the mentioned above

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

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 in a binary file?

A. set() method

B. dump() method

C. load() method

D. None of the mentioned above

Ans- 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

Ans-b)set() method

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-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 = {}

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-b) captains["Enterprise"] = "Picard"

captains["Voyager"] = "Janeway"

captains["Defiant"] = "Sisko"

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

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 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()

ans- c) del captains["Discovery"]