**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: c) Dictionary**

**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: c) both a) and b)**

**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()**

**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**

**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**

**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: 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: 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"]**