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 data type 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) go to

d) except

Ans) a- raise

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

a) Time date

b) date

c) date time

d) time

Ans) c- date time

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) a-248

8) WhichofthefollowingfunctionsconvertsdatetocorrespondingtimeinPython?

a) Strp time

b) Strf time

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 ____isabuilt-infunctionthatreturnsarangeobjectthatconsistsseriesofintegernumbers,which we can iterate using a for loop.

    A. range()
    B. set()
    C. dictionary{}
    D. None of the mentioned above

Ans) a- range()
Question11

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- Lamdafunction
Question12

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

Question13

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) Amongstwhichofthefollowingis/arethemethodusedtounpicklingdatafromabinaryfile?

    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",

 }

   EnterprisePicard,

   VoyagerJaneway

   DefiantSisko

        a) forship,captainincaptains.items():

           print(ship, captain)

        b) for ship in captains:

           print(ship,captains[ship])

        c) forshipincaptains:

```
            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".

Whichofthefollowingcodesnippetswillsuccessfullyaddthesekey-valuepairstothe existing captains dictionary?

    a)   captains{"Enterprise"="Picard"}

    captains{"Voyager" = "Janeway"}

    captains{"Defiant" = "Sisko"}

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

    aptains["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]iscaptainedby[captain].")

    b)   for ship, captain in captains.items():

       print(f"The{ship} is captainedby{captain}.")

    c)   for captain, ship in captains.items():

       print(f"The{ship} is captainedby{captain}.")

    d)   Allarecorrect

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"]