MCQ

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) WhatkeywordisusedinPythonto raiseexceptions?

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) Whatwillbetheoutputofthefollowingcodesnippet?

```
print(4**3+(7+5)**(1 +1))
```

    a) 248
    b) 169
    c) 208
    d) 233

Ans. (c) 208

8) WhichofthefollowingfunctionsconvertsdatetocorrespondingtimeinPython?

a) strptime

b) strftime

c) botha)andb)

d) None

Ans. (b) strftime

9) Thepython tupleis _____innature.

a) mutable

b)immutabl

e

c)unchangeable

d) none

<mark>Ans. (b) immutable</mark>

10)

The ___isa built-infunctionthatreturnsarangeobject thatconsistsseriesofinteger numbers, which we can iterate using a for loop.

    A. range()
    B. set()
    C. dictionary{}
    D. Noneofthementionedabove

<mark>Ans. (A) range()</mark>

Question11

Amongstwhichofthefollowingisafunctionwhichdoesnothaveanyname?

    A. Delfunction
    B. Showfunction
    C. Lambdafunction
    D. Noneofthementionedabove

<mark>Ans. (C) Lamda function</mark>

Question12

The modulePickleis usedto ___.

    A. SerializingPythonobjectstructure
    B. De-serializingPythonobjectstructure
    C. BothAandB
    D. Noneofthementionedabove

<mark>Ans. (C) Both A and B</mark>

Question13

Amongstwhichofthe followingis/ arethe methodofconvert Pythonobjectsforwritingdatain a binary file?

    A. set()method
    B. dump()method
    C. load()method
    D. Noneofthementionedabove

<mark>Ans. (B) damp()method</mark>

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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

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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[shi

      p])

c) forshipincaptains:

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

17)

Whichofthefollowinglinesofcodewillcreateanemptydictionarynamedcaptains?

a) captains={dict}
b) type(captains)
c) captains.dict()
d) captains={}

18) Nowyouhaveyouremptydictionarynamedcaptains.It'stimetoaddsomedata!

Specifically, youwanttoaddthekey-valuepairs "Enterprise":"Picard", "Voyager":"Janeway", and "Defiant": "Sisko".

Which ofthefollowingcodesnippets willsuccessfullyaddthesekey-valuepairs tothe existing captainsdictionary?

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) Noneoftheabove

```
captains["Defiant"]="Sisko"
```

19 A heart is broken in number of feelings 1:2:3:4. The cost of heart is directly proportional to the square of number of feelings. There is loss of 700 on broken heart. Find the actual price of heart ?)You'rereallybuildingouttheFederationStarfleetnow!Here'swhatyouhave:

captains={

"Enterprise":"Picard",

"Voyager":"Janeway",

"Defiant": "Sisko",

"Discovery":"unknown",

}Now, sayyou want todisplaytheshipandcaptainnamescontainedinthedictionary, butyoualso want to provide some additional context. How could you do it?

   a) for itemincaptains.items():

     print(f"The[ship]iscaptainedby[captain].")

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

     print(f"The{ship}iscaptainedby{captain}.")

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

     print(f"The{ship}iscaptainedby{captain}.")

   d) Allarecorrect

Ans. (b) for ship, captain in captain.items()
print(f"The {ship} is captained by {captain}.")

20)

You'vecreateda dictionary,addeddata,checkedfor theexistenceofkeys, anditeratedover itwith a forloop. 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]