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 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 (Answer is 9)

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. Noneofthementionedabove

Ans: A) Range()

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

- Delfunction
- Show function
- Lambda function
- Noneofthementionedabove

Ans: Lambda function

Question 12

The module Pickle is used to ___.

- SerializingPythonobjectstructure
- De-serializing Python object structure
- BothAandB
- Noneofthementionedabove

Ans: 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?

- set()method
- dump() method
- load() method
- Noneofthementionedabove

Ans: b) dump() method

14. Amongst which of the following is / are the method used to unpickling data from a binary file?

- load()
- set() method
- dump() method
- Noneofthementionedabove

Ans: a) load()

15.

A text file contains only textual information consisting of ___.

- Alphabets
- Numbers
- Special symbols
- Allofthementionedabove

Ans: D) All of the mentioned above

16

captains = { "Enterprise": "Picard", "Voyager": "Janeway", "Defiant": "Sisko",

}

...) below to get the following output? (Select all that

Which Python code could replace the ellipsis (

apply.)

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 . 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 dictionary?

captains

captains

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

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

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"]