

MCQs ASSIGNMENT

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

Answer:- option 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

Answer:- option b) Filter

3) As what datatype are the *args stored, when passed into

- a) Tuple
- b) List
- c) Dictionary
- d) none

Answer:- option 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

Answer:- option d) Error (TypeError)

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

- a) raise
- b) try
- c) goto
- d) except

Answer:- option a) raise

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

- a) timedata
- b) date
- c) datetime
- d) time

Answer:- option 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

Answer:- option 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

Answer:- option a) strptime

9) The python tuple is _____ in nature.

a) mutable

b)immutable

c)unchangeable

d) none

Answer:- option 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

Answer:- option 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

Answer:- option 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

Answer:- option 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

Answer:- option 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

Answer:- option 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

Answer:- option 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

Answer:- option 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 = {}

Answer:- option 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

Answer:- option c) captains = {"Enterprise": "Picard", "Voyager": "Janeway", "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

Answer:- option a) for item 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()

Answer:- option c) del captains["Discovery"]