

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

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 : a) strptime

9) The python tuple is_____in nature.

a) mutable

b)immutable

c)unchangeable

d) none

Ans : b)immutable

10) 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()

Question 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

Question 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

Question 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

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 : 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

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"]

ANSWER SHEET OF ASSIGNMENT – 1

- 1. c) 15**
- 2. b) Filter**
- 3. a) Tuple**
- 4. d) Error**
- 5. a) raise**
- 6. c) datetime**
- 7. c) 208**
- 8. a) strptime**
- 9. b)immutable**
- 10. A) range()**
- 11. C) Lambda function**
- 12. C) Both A and B**
- 13. B) dump() method**
- 14. A) load()**
- 15. D) All of the mentioned above**
- 16. d) both a and b**
- 17. d) captains = {}**
- 18. c) captains = { "Enterprise": "Picard", "Voyager": "Janeway",
"Defiant": "Sisko", }**
- 19. b) for ship, captain in captains.items():
 print(f"The {ship} is captained by {captain}.")**
- 20. c) del captains["Discovery"]**