

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) 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 – A) & 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

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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

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 = b) & c)

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?

```
print(f"The [ship] is captained by [captain].")
```

- a) for item in captains.items():
- 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)

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"]`