

MCQ

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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 – 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 – b) Filter

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

- a) Tuple

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

Answer – 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 – d) Error

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

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

Answer – 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 – 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 – 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 – a) strptime

9) The python tuple is _____ in nature.

a) mutable

b) immutable

c) unchangeable

d) none

Answer – c) Unchangeable

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 – 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

Answer – 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

Answer – 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

Answer – dump() method & load() 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 – 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 – 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 – 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 – 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 – b) `captains["Enterprise"] = "Picard"`

`Captains["Voyager"] = "Janeway"`

`Captains["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 – 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()`

Answer – c) del captains["Discovery"]