

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: b) List**

**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) timedata
- 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: d) None**

**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()**

**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**

**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**

**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**

**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

**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", }
```

Output-

```
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"]**

**\*\*END\*\***