

## MCQ (Solve)

**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

**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

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

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

**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**

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

- a) raise**
- b) try
- c) goto

d) except

**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

**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

**8) Which of the following functions converts date to corresponding time in Python?**

a).strptime

b) strftime

c) both (a) and (b)

d) None

**9) The python tuple is \_\_\_\_\_ in nature.**

a) mutable

b) immutable

c) unchangeable

d) none

**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

**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

**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

**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

**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

**15) A text file contains only textual information consisting of \_\_\_\_.**

- A. Alphabets
- B. Numbers
- C. Special symbols
- 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

**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 = {}

**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

**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

**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()