

MCQ

**Q 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))
```

**ans : c) 15**

**Q2 What will be the output of the following code snippet?**

```
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))
```

**ans : b) Filter**

**Q3) As what datatype are the \*args stored, when passed into**

**ans : a) Tuple**

**Q4 What will be the output of the following code snippet?**

```
set1 = {14, 3, 55}  
  
set2 = {82, 49, 62}  
  
set3={99,22,17}  
  
print(len(set1 + set2 + set3))
```

**ans : d) Error**

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

**ans : d) except**

**Q 6) Which of the following modules need to be imported to handle date time computations in Python?**

**ans : c) datetime**

**7) What will be the output of the following code snippet?**

```
print(4**3 + (7 + 5)**(1 + 1))
```

**ans : c) 208**

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

**ans : a) strptime**

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

**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.**

**ans : A. range()**

**11) Amongst which of the following is a function which does not have any name?**

**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

**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?**

**ans: B. dump() method**

**14) Amongst which of the following is / are the method used to unpickling data from a binary file?**

**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",  
}
```

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

**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?

**ans : 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?

**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"?

**ans: c) del captains["Discovery"]**