

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))
```

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))
```

Answer: b) Filter

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

Answer: a) Tuple

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

Answer: d) Error

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

Answer: a) raise

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

Answer: c) datetime

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

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

Answer: c) 208

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

Answer: b) strftime

9) The python tuple is_____in nature.

Answer: b) immutable

10) The_____is a built-in function that returns a range object that consists series of integer numbers, whichwe can iterate using a for loop.

Answer: a) range()

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

Answer: c) Lambda function

12) The module Pickle is used to_____.

Answer: c) Both A and B (Serializing Python object structure and De-serializing Python object structure)

13) Amongst which of the following is / are the method of convert Python objects for writing data in a binary file?

Answer: b) dump() method

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

Answer: a) load()

15. A text file contains only textual information consisting of_____.

Answer: d) All of the mentioned above (Alphabets, Numbers and Special symbols)

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
```

**Answer: a) for ship, captain in captains.items():
print(ship, captain)**

17) Which of the following lines of code will create an empty dictionary named `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?

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?

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"?

Answer: c) del captains["Discovery"]