

## **Question and Answer :**

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 – (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

**Answer – (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

**Answer – (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

**Answer – (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

**Answer – (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

**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 – (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

**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"]**