

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] 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) timdate

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 : `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

Answer : b)

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()