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**

# **Ans: 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

# Ans: b) Filter

- 3) As what datatype are the \*args stored, when passed into
- a) Tuple
- b) List
- c) Dictionary
- d) None

# Ans: 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) (
- d) Error

# Ans: d) Error

- 5) What keyword is used in Python to raise exceptions?
- a) raise
- b) try
- c) goto
- d) except

# Ans: a) raise

- **6)** Which of the following modules need to be imported to handle date time computations in Python?
- a) timedate
- b) date
- c) datetime
- d) time

### Ans: 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

Ans: 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
Ans: b) strftime
9) The python tuple isin nature.
a) mutable
b)immutable
c)unchangeable
d) none
Ans: b) immutable
10)Theis 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()
<ul><li>B. set()</li><li>C. dictionary{}</li></ul>
D. None of the mentioned above
Ans: a) range()
Question 11 Amongst which of the following is a function which does not have any name?
A. Del function
<ul><li>B. Show function</li><li>C. Lambda function</li></ul>
D. None of the mentioned above
Ans: c) Lambda function

- A. Serializing Python object structureB. De-serializing Python object structure

Question 12 The module Pickle is used to \_\_\_.

C. Both A and B

#### Ans: c) Both A and B

Question 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

# Ans: B) dump() method

14Amongst 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

#### 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",
}
```

Enterprise Picard,

Voyager Janeway

```
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)
```

#### Ans: d) both a and b

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?

```
    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

# 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?

```
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

# Ans: b) for ship, captain in captains.items(): print(f''The {ship} is captained by {captain}.'') Output:

The Enterprise is captained by Picard.
The Voyager is captained by Janeway.
The Defiant is captained by Sisko.
The Discovery is captained by unknown

#### 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()
```

Ans: c) del captains["Discovery"]