# **Task - 1**

**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 :- D.** → **None**, it is passed into a function.

- a) 105
- b) 270
- c) 0
- 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 computation s 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

	(4**3 + (7+5) ** (1+1)) (4**3 + 12**2) 64 + 144
	208
8.	Which of the following functions converts date to corresponding time in Python?
	<ul><li>a) strptime</li><li>b) strftime</li><li>c) both a) and b)</li><li>d) None</li></ul>
s :-	A. → strptime
9.	The python tuple is in nature.
	a) mutable b) immutable c)unchangeable d) none
s :-	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
s :-	<b>A.</b> → range()
11.	Amongst which of the following is a function which does not have any name?
	<ul><li>A. Del function</li><li>B. Show function</li><li>C. Lambda function</li><li>D. None of the mentioned above</li></ul>
	D. None of the including above

8.

Ans:-

Ans:-

Ans:-

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
- D. None of the mentioned above

## Ans :- C. → Both A and B

- **13.** Amongst which of the following is / are the method of convert Python objects for writ ing data in a binary file?
  - A. set() method
  - B. dump() method
  - C. load() method
  - D. None of the mentioned above

#### Ans :- B. → Dump() method

- **14.** Amongst which of the following is / are the method used to unpickling data from a bi nary file?
  - A. load()
  - B. set() method
  - C. dump() method
  - D. None of the mentioned above

# Ans :- A. $\rightarrow$ Load()

- **15.** A text file contains only textual information consisting of \_\_\_\_.
  - A. Alphabets
  - B. Numbers
  - C. Special symbols

**Defiant Sisko** 

D. All of the mentioned above

#### Ans :- D. → All of the mentioned above

- 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

# 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. $\rightarrow$ 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": "Jane way", and "Defiant": "Sisko".

Which of the following code snippets will successfully add these key-value pairs to the ex isting 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 :- 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
```

#### Ans :- B. $\rightarrow$

```
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.
```

**20.** You've created a dictionary, added data, checked for the existence of keys, and iterate d 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"]