ASSIGNMENT-1 (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))
a) 10
b) 20
c) 15
d) 0
Correct Option: 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
Correct Option: c) List
3. As what datatype are the *args stored, when passed into
a) Tuple
b) List
c) Dictionary
d) none
Correct Option: 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
Correct Option: d) Error
5. What keyword is used in Python to raise exceptions?
a) raise
b) try
c) goto
d) except
```

Correct Option: a) raise

6. Which of the following modules need to be imported to handle date time computations in Python?a) timedateb) datec) datetimed) time
Correct Option: 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
Correct Option: c) 208
9. Which of the following functions converts date to corresponding time in Python?a) strptimeb) strftimec) both a) and b)d) None
Correct Option: a) strptime
9. The python tuple is in nature. a) mutable b)immutable c)unchangeable d) none
Correct Option: b) immutable
10. The is a built-in function that returns a range object that consists series of integer number which we can iterate using a for loop. A. range() B. set() C. dictionary{} D. None of the mentioned above
Correct Option: a) range()
11. Amongst which of the following is a function which does not have any name?A. Del functionB. Show functionC. Lambda functionD. None of the mentioned above

Correct Option: 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

Correct Option: 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

Correct Option: 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

Correct Option: 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

Correct Option: 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
```

Correct Option: 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 = {}
```

Correct Option: 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
Correct Option: 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
Correct Option: 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()
```

Correct Option: c) del captains["Discovery"]