

Assignment No. 1

Date-15/01/2024

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Q. 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

Output:- C) 15

Q. 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

Output:- b)Filter

Q. 3) what datatype are the *args stored, when passed into

- a) Tuple
- b) List
- c) Dictionary
- d) None

Output:-a)Tuple

Q. 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

Output:-d) Error

Q. 5) What keyword is used in Python to raise exceptions?

- a) raise
- b) try
- c) goto
- d) Except

Answer:- a) Raise

Q. 6) Which of the following modules need to be imported to handle date time computations in Python?

- e) timdate
- f) date
- g) datetime
- h) Time

Answer:- g) datetime

Q. 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

Output- C) 208

Q. 8) Which of the following functions converts date to corresponding time in Python?

- i) strptime
- j) strftime
- k) both a) and b)
- l) None

Answer- C)Both A) and B)

Q. 9) The python tuple is ___in nature.

- a)mutable
- b)immutable
- c) unchangeable
- d)none

Answer:- b) immutable

Q. 10) The___is a built-in function that returns a range object that consists series of integer numbers, whichwe can iterate using a for loop.

- A. range()
- B. set()
- C. dictionary{ }
- D. None of the mentioned above

Answer:- A) range

Q. 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

Q. 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

Q. 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

Q. 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()

Q. 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

Q. 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

Q. 17) Which of the following lines of code will create an empty dictionary named captains?

- m) captains = {dict}
- n) type(captains)
- o) captains.dict()
- p) captains = {}

Answer:- p) captions={}

Q. 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:- b) `captains["Enterprise"] = "Picard"`

`captains["Voyager"] = "Janeway"`

`captains["Defiant"] = "Sisko"`

Q. 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}.")

Q. 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"]
