

Assignment – 1 (MCQ)

BATCH DS2310

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Question 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

Question 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

Question 3.

As what datatype are the *args stored, when passed into

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

Answer: a) Tuple

Question 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

Question 5.

What keyword is used in Python to raise exceptions?

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

Answer: a) raise

Question 6.

Which of the following modules need to be imported to handle date time computations in

Python?

- a) timedata
- b) date
- c) datetime
- d) time

Answer: c) datetime

Question 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

Question 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: c) both a) and b)

Question 9.

The python tuple is _____ in nature.

a) mutable

b) immutable

c) unchangeable

d) none

Answer: b) immutable

Question 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()

Question 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

Question 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

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

Answer: B) dump() method

Question 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()

Question 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

Question 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

Question 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: D) `captains = {}`

Question 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"
```

Question 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}.")
```

Question 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"]`

-----THE END-----