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Name- Nikhil Lalwani

Batch- DS2307

Project-1

Q1 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

A1 – 15

Q2 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

A2- Filter

Q3 As what datatype are the *args stored, when passed into

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

A3- Tuple

Q4 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

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A4- Error(bcoz addition symbol is not used is SET)

Q5 What keyword is used in Python to raise exceptions?

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

A5- raise

Q6) Which of the following modules need to be imported to handle date time computations in Python? a) timedata b) date c) datetime d) time

A6- datetime

Q7) 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

A7- 208

Q8) Which of the following functions converts date to corresponding time in Python?

- a).strptime b) strftime c) both a) and b) d) None

A8- strftime

Q9) The python tuple is _____ in nature.

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

A9)- immutable

Q10) 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

A10- Range

Q11) 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

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A11- Lambda function

Q12) 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**

A12- Both A and B

Q13) 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**

A13- dump() method

Q14) 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**

A14- load()

Q15) A text file contains only textual information consisting of ____.

- A. Alphabets B. Numbers C. Special symbols D. All of the mentioned above**

A15- All of the mentioned above

Q16) 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**

A16- d) both a and b

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Q17) 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 = {}`

A17- `captains = {}`

Q18) 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

A18- `captains = { "Enterprise": "Picard", "Voyager": "Janeway", "Defiant": "Sisko", }`

Q19) 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

A19- `for ship, captain in captains.items(): print(f"The {ship} is captained by {captain}.")`

Q20) 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"]`

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d) captains["Discovery"].pop()

A20- del captains["Discovery"]

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