ASSIGNMENT 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))

Answer: c) 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)

Answer: b) Filter

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

Answer: a) Tuple

Q4. set1 = {14, 3, 55} set2 = {82, 49, 62} set3={99,22,17} print(len(set1 + set2 + set3))

Answer: d) Error

Q5. What keyword is used in Python to raise exceptions?

Answer: a) raise

Q6. Which of the following modules need to be imported to handle date time computations in Python?

Answer: c) datetime

Q7. What will be the output of the following code snippet? print(4**3 + (7 + 5)**(1 + 1))

Answer: c) 208

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

Answer: c) both a) & b)

Q9. The python tuple is _____ in nature.

Answer: b) 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.

Answer: a) range()

Q11. Amongst which of the following is a function which does not have any name?

Answer: c) Lambda function

Q12. The module Pickle is used to ___.

Answer: c) Both a) & b)

Q13. Amongst which of the following is / are the method of convert Python objects for writing data in a binary file?

Answer: b) dump() method

Q14. Amongst which of the following is / are the method used to unpickling data from a binary file?

Answer: a) load()

Q15. A text file contains only textual information consisting of ___.

Answer: d) 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

Answer: d) both a) & b)

Q17. Which of the following lines of code will create an empty dictionary named captains?

Answer: d) 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?

Answer: c) 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?

Answer: b) 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", }

Answer: c) del captains["Discovery"]