Answers

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))
   ```
   Answer : 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))
   ```
   Answer : B) Filter

3. As what datatype are the *args stored, when passed into
   Answer :A) Tupel

4. ```
   set1 = {14, 3, 55}
   set2 = {82, 49, 62}
   set3={99,22,17}
   print(len(set1 + set2 + set3))
   ```
   Answer : D) Error

5. What keyword is used in Python to raise exceptions?
   Answer :A) raise

6. Which of the following modules need to be imported to handle date time computations in Python?
   Answer : C) datetime

7.) What will be the output of the following code snippet?
   ```
   print(4**3 + (7 + 5)**(1 + 1))
   ```
   Answer : C) 208

8. Which of the following functions converts date to corresponding time in Python?
   Answer : B) strftime

9. The python tuple is _____ in nature
   Answer : C) immutable

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.
    Answer : A) range()

11. Amongst which of the following is a function which does not have any name?
    Answer : C) Lambda function

12. The module Pickle is used to ___.
    Answer : 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?
    Answers : B) dump() method

14. Amongst which of the following is / are the method used to unpickling data from a binary file?
    Answers : A) load()

15. A text file contains only textual information consisting of ___.
    Answer :   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
    Answer : D) both a and b

17. Which of the following lines of code will create an empty dictionary named captains?
    Answer :   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?
    Answer : B) captains["Enterprise"] = "Picard"
    captains["Voyager"] = "Janeway"
    captains["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?

      Answer: 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"?
    Answer: C) del captains["Discovery"]