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:15

2. ```
   numbers = (4, 7, 19, 2, 89, 45, 72, 22)
   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: Filter

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

4. set1 = {14, 3, 55}

set2 = {82, 49, 62}

   set3={99,22,17}

Answer: Error

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

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

Answer: datetime

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

Answer: 208

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

Answer: strptime

9. The python tuple is _____ in nature.

Answer: 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: range

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

12. The module Pickle is used to ___.

Answer: 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?

Answer: dump()method

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

Answer: load()

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

Answer: 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",}

Answer: both A and B

17. Which of the following lines of code will create an empty dictionary named captains?
    Answer: Answer: captains = {}

18. Now you have your empty dictionary named captains. It's time to add some data!

Answer: "Enterprise": "Picard",
             "Voyager": "Janeway",
               "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: 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", }

Answer: captains.remove()