1. Answer: the output of the code snippet print(func(30,75)) is **15.**
2. Answer:

   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))

   <class 'filter'>

   It indicates that even_ number is  of type **Filter.**
3. Answer: Tuple
4. Answer: Zero
5. The keyword used in Python to raise exceptions is: a) **raise**
6. To work with date and time in Python, we would import "datetime"
7. Answer: **208**
8. the correct choice for converting a date to the corresponding time is **strptime**
9. In Python, a tuple is an **immutable** data type.
10. The "**range**" is a built-in function that returns a range object that consists series of integer numbers, which we can iterate using a for loop.
11. **Lambda function** does not have any name.
12. The **pickle** module in Python is used for serializing and de-serializing Python object structures, which means it can be used to convert a Python object into a byte stream **(serialization)** and then reconstruct the object from that byte stream **(deserialization).**
13. The **dump()** method is part of the **pickle** module in Python.

14. The **load()** method is used for unpickling data from a binary file.

15. A text file contains only textual information consisting of **Alphabets.**
16. Both option:

    a) for ship, captain in captains. Items (): print (ship, captain)

    b) for ship in captains: print (ship, captains[ship])

17. The correct line of code to create an empty dictionary named **captains** is: d) **captains = {}**

18. The correct code snippet to successfully add the key-value pairs to the existing **captains** dictionary is:    b) captains["Enterprise"] = "Picard"

captains["Voyager"] = "Janeway"

captains["Defiant"] = "Sisko"

19. The correct option to display the ship and captain names with additional context is: b)

for ship, captain in captains. Items():

   print (f"The {ship} is captained by {captain}.")

20. The correct statement to remove the entry for the key "Discovery" from the dictionary is: c) **del captains["Discovery"]**