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)) a) 10 b) 20 c) 15 d) 0 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)) a) Int b) Filter c) List d) Tuple Answer: b (Filter) 3) As what data type are the *args stored, when passed into a) Tuple b) List c) Dictionary d) none Answer: a (Tuple) 4) $set1 = \{14, 3, 55\}$ set2 = {82, 49, 62} set3={99,22,17} print(len(set1 + set2 + set3)) a) 105 b) 270 c) 0 d) Error

Answer: d (Error)

5) What keyword is used in Python to raise exceptions?
a) raise b) try c) goto d) except
Answer: a (raise)
6) Which of the following modules need to be imported to handle date time computations in Python?
a) timedate b) date c) datetime d) time
Answer: c (datetime)
7) 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
Answer: c (208)
8) Which of the following functions converts date to corresponding time in Python?
a) strptime b) strftime c) both a) and b) d) None
Answer: a (strptime)
9) The python tuple is in nature. a) mutable b) immutable c) unchangeable d) none
Answer: b (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.
A. range() B. set() C. dictionary{}
D. None of the mentioned above
Answer: A (range())
11) 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
Answer: C (Lambda function)
12) 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
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?
A. set() method
B. dump() method
C. load() method D. None of the mentioned above
Answer: B (dump() method)
14) 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
Answer: A (load())

15) A text file contains only textual information consisting of ____. A. Alphabets B. Numbers C. Special symbols D. All of the mentioned above 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** 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 Answer: d (both a and b) 17) 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 = {} 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? 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 Answer: c (captains = { "Enterprise": "Picard", "Voyager": "Janeway", "Defiant": "Sisko", })

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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
```

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

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"?

- a) del captains
- b) captains.remove()
- c) del captains["Discovery"]
- d) captains["Discovery"].pop()

Answer: c) (del captains["Discovery"])