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 datatype 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 -- unsupported operand type(s) for +: 'set' and 'set' 5. What keyword is used in Python to raise exceptions? a) raise b) try c) goto d) except

Answer: a) raise the try catch block is for handling exceptions, the raise keyword on the opposite is to generate an exception, **raise** keyword to explicitly raise a n exception.

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: both b)immutable and c)unchangeable
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

 $6\,.$ Which of the following modules need to be imported to handle date time c omputations in Python?

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.)
<pre>captains = { "Enterprise": "Picard", "Voyager": "Janeway", "Defiant": "Sisko", }</pre>
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 = {}, another method is captains= dict()
```

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", }
```

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?

```
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"]