```
Q1. 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
Ans: c) 15
Q2. 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
Ans: b) Filter
Q3. As what datatype are the *args stored, when passed into
a) Tuple
b) List
c) Dictionary
d) none
Ans: a) Tuple
Q4. 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
Ans: d) Error
```

Q5. What keyword is used in Python to raise exceptions?
a) raise
b) try
c) goto
d) except
Ans: a) raise
Q6. Which of the following modules need to be imported to handle date time computations in Python?
a) timedate
b) date
c) datetime
d) time
Ans: c) datetime
Q7. 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
Ans: c) 208
Q8. Which of the following functions converts date to corresponding time in Python?
a) strptime
b) strftime
c) both
a) and b)
d) None
Ans: a) strptime
Q9. The python tuple is in nature.
a) mutable
b)immutable

c)unchangeable
d) none
Ans: b) immutable
Q10. 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
Ans: A. range()
Q11. 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
Ans: C. Lambda function
Q12. 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
Ans: C. Both A and B
Q13. 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
Ans: B. dump() method
Q14. 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
Ans: A. load()
Q15. A text file contains only textual information consisting of ____.
A. Alphabets
B. Numbers
C. Special symbols
D. All of the mentioned above
Ans: D. All of the mentioned above
Q16. 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
Ans: d) both a and b
Q17. 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 = {}
```

Ans: d) captains = {}

Q18. 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
```

Ans: d) None of the above (as both b and c)

Q19. 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
```

Ans: b)

Q20. 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()
```

Ans: c) del captains["Discovery"]