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))
```

Ans: 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))
```

Ans: b) Filter

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

Ans: a) Tuple

Ans: d) Error

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

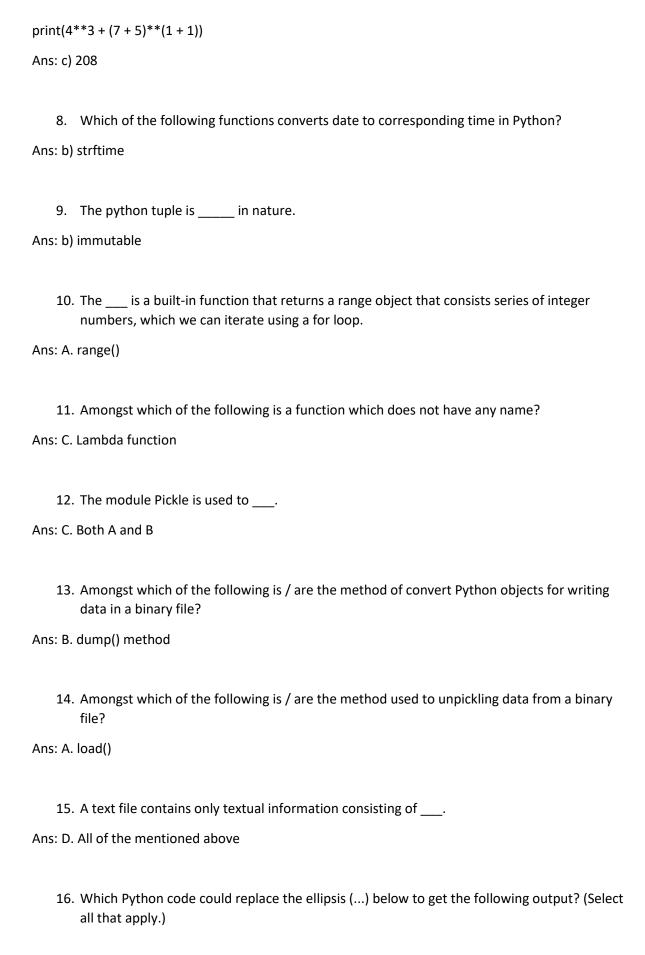
Ans: a) raise

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

Python?

Ans: c) datetime

7. What will be the output of the following code snippet?



```
captains = {
"Enterprise": "Picard",
"Voyager": "Janeway",
"Defiant": "Sisko",
}
Enterprise Picard,
Voyager Janeway
Defiant Sisko
Ans: d) both a and b
    17. Which of the following lines of code will create an empty dictionary named captains?
Ans: 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?
Ans: b) captains["Enterprise"] = "Picard"
captains["Voyager"] = "Janeway"
captains["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?
Ans: 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"?
Ans: c) del captains["Discovery"]
```