```
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

SOLUTION: c)

```
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

SOLUTION: b)

- 3) As what datatype are the *args stored, when passed into
- a) Tuple
- b) List
- c) Dictionary
- d) none

SOLUTION: a)

print(len(set1 + set2 + set3))

- a) 105
- b) 270
- c) (
- d) Error

SOLUTION: d)

5) What keyword is used in Python to raise exceptions? a) raise b) try c) goto d) except SOLUTION: a) 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 SOLUTION: c) 7) What will be the output of the following code snippet? print(4**3 + (7 + 5)**(1 + 1))a) 248

b) 169

d) 233

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SOLUTION: c)

8) Wh	ich of the following functions converts date to corresponding time in Python?
a) strp	time
b) strft	time
c) both	a) and b)
d) Nor	ne
SOLUTION: a)	
9)	The python tuple is in nature.
a)	mutable
b):	immutable
c)1	unchangeable
	none
SOLUTIO	ON: b)

The	is a built-in function	that returns	a range object	that consists	series of	integer	numbers,	which
we can i	terate using a for loop	p.						

- A. range()
- B. set()
- C. dictionary{}
- D. None of the mentioned above

SOLUTION: a)

Question 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

SOLUTION: c)

Question 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

SOLUTION: c)

Question 13

Amongst w	hich of the	following is /	are the me	thod of c	onvert Pyth	ıon objects f	for writing d	lata in
a binary fil	le?							

- A. set() method
- B. dump() method C. load() method
- D. None of the mentioned above

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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

SOLUTION: a)

A text file contains only textual information consisting of ____.

- A. AlphabetsB. Numbers

- C. Special symbolsD. All of the mentioned above

SOLUTION: d)

```
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

SOLUTION: d)

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 $= \{\}$

SOLUTION: d)

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

SOLUTION: b)

```
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
```

SOLUTION: b)

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()

SOLUTION: c)