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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
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 num	nbers,
which we can iterate using a for loop.	
A. range()	
B. set()	
C. dictionary{}	
D. None of the mentioned above	
Answer: a) range()	
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	
Answer: C) Lambda function	

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 Answer: c) Both A and B Question 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

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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: 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?
        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}.")
```

17) Which of the following lines of code will create an empty dictionary named captains?