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) 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) 3) As what datatype are the *args stored, when passed into a) Tuple b) List c) Dictionary d) None Answer: (a)

```
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)
5) What keyword is used in Python to raise exceptions?
a) raise
 b) try
c) goto
 d) except
Answer: (d)
 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)
        What will be the output of the following code snippet?
7)
 print(4**3 + (7 + 5)**(1 + 1)) a)
     a) 248
     b) 169
     c) 208
     d) 233
Answer: (c)
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)	
9) The python tuple isin nature.	
a) mutable	
b) immutable	
c)unchangeable	
d) none	
Answer: (b)	
10) The_is a built-in function that returns a range object that consists series of integer number which we can iterate using a for loop.	rs,
A. range()B. set()C. dictionary{}D. None of the mentioned above	
Answer: (A)	
Amongst which of the following is a function which does not have any name?	
A. Del functionB. Show functionC. Lambda functionD. None of the mentioned above	
Answer: (C)	
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)	
13) Amongst which of the following is / are the method of convert Python objects for writing da in a binary file?	ıta
A. set() methodB. dump() methodC. load() methodD. None of the mentioned above	
Answer: (B)	
14) Amongst which of the following is / are the method used to unpickling data from a binary fi	le?

A. load()
B. set() method
C. dump() method

Answer: (A) 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) 16) Which Python code could replace the ellipsis (...) below to get the following output? (Select all that $captains = \{$ "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

D. None of the mentioned above

Answer: (a)

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)

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",
```

d) None of the above

"Voyager": "Janeway",

"Defiant": "Sisko",

Answer: (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 Answer: (b) 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: (d)