

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

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

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

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**

5) What keyword is used in Python to raise exceptions? a) **raise** b) try c) goto d) except

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

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

8) Which of the following functions converts date to corresponding time in Python? a) strptime b) strftime c) both a) and b) **d) None**

9) The python tuple is _____ in nature. a) mutable **b)immutable** c)unchangeable d) none

10) 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 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 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 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

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

15. A text file contains only textual information consisting of ____. A. Alphabets B. Numbers C. Special symbols **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

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 = {}**

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

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**

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()**