

1. Which of the following is a Python tuple?

- a) [1, 2, 3]
- b) (1, 2, 3)
- c) {1, 2, 3}
- d) {}

2. Suppose `t = (1, 2, 4, 3)`, which of the following is incorrect?

- a) `print(t[3])`
- b) `t[3] = 45`
- c) `print(max(t))`
- d) `print(len(t))`

3. Identify the output:

```
>>>t=(1,2,4,3)
>>>t[1:3]
```

- a) (1, 2)
- b) (1, 2, 4)
- c) (2, 4)
- d) (2, 4, 3)

4. What will be the output of the following Python code?

```
>>>t=(1,2,4,3)
>>>t[1:-1]
```

- a) (1, 2)
- b) (1, 2, 4)
- c) (2, 4)
- d) (2, 4, 3)

5. What will be the output of the following Python code?

```
>>>t = (1, 2, 4, 3, 8, 9)
>>>[t[i] for i in range(0, len(t), 2)]
```

- a) [2, 3, 9]
- b) [1, 2, 4, 3, 8, 9]
- c) [1, 4, 8]
- d) (1, 4, 8)

6. What will be the output of the following Python code?

```
>>>t = (1, 2)
>>>2 * t
```

- a) (1, 2, 1, 2)
- b) [1, 2, 1, 2]
- c) (1, 1, 2, 2)
- d) [1, 1, 2, 2]

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

```
>>>t1 = (1, 2, 4, 3)
>>>t2 = (1, 2, 3, 4)
>>>t1 < t2
```

- a) True
- b) False

- c) Error
- d) None

8.What will be the output of the following Python code?

```
>>>my_tuple = (1, 2, 3, 4)
>>>my_tuple.append( (5, 6, 7) )
>>>print len(my_tuple)
```

- a) 1
- b) 2
- c) 5
- d) Error

9.What is the data type of (1)?

- a) Tuple
- b) Integer
- c) List
- d) Both tuple and integer

10.What will be the output of the following Python code?

```
>>> a=("Check")*3
>>> a
```

- a) ('Check'Check'Check')
- b) * Operator not valid for tuples
- c) ('CheckCheckCheck')
- d) Syntax error

11.What will be the output of the following Python code?

```
>>> a=(1,2,3,4)
>>> del(a[2])
```

- a) Now, a=(1,2,4)
- b) Now, a=(1,3,4)
- c) Now a=(3,4)
- d) Error as tuple is immutable

12.What will be the output of the following Python code?

```
>>> a=(2,3,4)
>>> sum(a,3)
```

- a) Too many arguments for sum() method
- b) The method sum() doesn't exist for tuples
- c) 12
- d) 9

13.Is the following Python code valid?

```
>>> a=(1,2,3,4)
>>> del a
```

- a) No because tuple is immutable
- b) Yes, first element in the tuple is deleted
- c) Yes, the entire tuple is deleted
- d) No, invalid syntax for del method

14.What type of data is: a=[(1,1),(2,4),(3,9)]?

- a) Array of tuples
- b) List of tuples
- c) Tuples of lists([],[],[])
- d) Invalid type

15. Is the following Python code valid?

```
>>> a,b,c=1,2,3
>>> a,b,c
```

- a) Yes, [1,2,3] is printed
- b) No, invalid syntax
- c) Yes, (1,2,3) is printed
- d) 1 is printed

16. Is the following Python code valid?

```
>>> a,b=1,2,3
```

- a) Yes, this is an example of tuple unpacking. a=1 and b=2
- b) Yes, this is an example of tuple unpacking. a=(1,2) and b=3
- c) No, too many values to unpack
- d) Yes, this is an example of tuple unpacking. a=1 and b=(2,3)

17. What will be the output of the following Python code?

```
>>> a=(1,2)
>>> b=(3,4)
>>> c=a+b
>>> c
```

- a) (4,6)
- b) (1,2,3,4)
- c) Error as tuples are immutable
- d) None

18. What will be the output of the following Python code?

```
>>> a,b=6,7
>>> a,b=b,a
>>> a,b
```

- a) (6,7)
- b) Invalid syntax
- c) (7,6)
- d) Nothing is printed

19. Is the following Python code valid?

```
>>> a=2,3,4,5
>>> a
```

- a) Yes, 2 is printed
- b) Yes, [2,3,4,5] is printed
- c) No, too many values to unpack
- d) Yes, (2,3,4,5) is printed

20. What will be the output of the following Python code?

```
>>> a=(2,3,1,5)
>>> a.sort()
>>> a
```

- a) (1,2,3,5)
- b) (2,3,1,5)
- c) None
- d) Error, tuple has no attribute sort

21. Is the following Python code valid?

- ```
>>> a=(1,2,3)
>>> b=a.update(4,)
```
- a) Yes, a=(1,2,3,4) and b=(1,2,3,4)
  - b) Yes, a=(1,2,3) and b=(1,2,3,4)
  - c) No because tuples are immutable
  - d) No because wrong syntax for update() method

22. What will be the output of the following Python code?

- ```
>>> a=[(2,4),(1,2),(3,9)]
>>> a.sort()
>>> a
```
- a) [(1, 2), (2, 4), (3, 9)]
 - b) [(2,4),(1,2),(3,9)]
 - c) Error because tuples are immutable
 - d) Error, tuple has no sort attribute

23. Which one of the following is immutable data type ?

- (A) list (B) set (C) tuple (D) dict

24. Suppose a tuple arr contains 10 elements. How can you set the 5th element of the tuple to 'Hello' ?

- (A) arr[4] = 'Hello'
- (B) arr(4) = 'Hello'
- (C) Elements of tuple cannot be changed
- (D) arr[5] = 'Hello'

25. What is the output of the following ?

- ```
t=(2, 3, 4, 3.5, 5, 6)
print(sum(t) + t.count(2))
```
- (A) 24 (B) 23.5 (C) 24.5 (D) 25.5

26. ms = ('A', 'D', 'H', 'U', 'N', 'T', 'C')

- ```
print(ms[1:4])
```
- (A) ('D', 'H', 'U')
 - (B) ('A', 'D', 'H', 'U', 'N', 'T', 'C')
 - (C) ('D', 'H', 'U', 'N', 'T', 'C')
 - (D) None of these

27. In which of the following data type, duplicate items are not allowed ?

- (A) list
- (B) dictionary
- (C) set
- (D) None of the above