**Tuple MCQs**

**1. What is a tuple in Python?**

a) A collection that is unordered and mutable  
b) A collection that is ordered and unchangeable  
c) A collection that is unordered and unchangeable  
d) A collection that is ordered and mutable

**2. Which of the following methods can be used with tuples in Python?**

a) append()  
b) insert()  
c) extend()  
d) index()

**3. How do you create an empty tuple in Python?**

a) empty\_tuple = ()  
b) empty\_tuple = []  
c) empty\_tuple = {}  
d) empty\_tuple = tuple([])

**4. What will the output of the following code?**

t = (1, 2, 3)

t[1] = 4

a) (1, 4, 3)  
b) [1, 4, 3]  
c) Error  
d) None of the above

**5. Which of the following is a valid way to create a tuple with a single element?**

a) (1,)  
b) (1)  
c) tuple[1]  
d) [1,]

**6. What is the output of the following code**

t = (1, 2, 3) + (4, 5)

print(t)

a) (1, 2, 3, 4, 5)  
b) [1, 2, 3, 4, 5]  
c) (5, 4, 3, 2, 1)  
d) Error

**7. Can a tuple contain elements of different data types?**

a) Yes  
b) No

**8. Which of the following is not a tuple operation in Python?**

a) Concatenation  
b) Repetition  
c) Slicing  
d) Sorting

**9. What is the output of the following code?**

t = (1, 2, 3)

print(t[-1])

a) 1  
b) 2  
c) 3  
d) -1

**10. Which function can be used to convert a list to a tuple in Python?**

a) tuple()  
b) list()  
c) set()  
d) dict()

**11. What is the length of the following tuple?**

my\_tuple = ("Developer", "Software", "ITDebuggers", "Tester")

print(len(my\_tuple))

a) 3

b) 4

c) 5

d) 6

**12. What will the following code output?**

A = (4, 5, 6, 7, 9, 7, 8, 5, 7, 25, 7, 6)

print(A[-3:-1])

a) (25, 7)

b) (7, 25)

c) (25, 7, 6)

d) Error

**13. Which of the following operations will reverse the tuple?**

tup1 = ('Developer', 'ITDebuggers', 1997, 2000)

a) tup1.reverse()

b) reversed(tup1)

c) tup1[::-1]

d) tup1.sort(reverse=True)

**14.What will be the result of this code?**

my\_tuple = ("ITDebuggers", "Backend", "Frontend", "Developer")

print(type(my\_tuple))

a) list

b) tuple

c) set

d) str