**Aptitude Questions (Python)**

**Q1. What is the value of result after executing the following Python code?**

my\_list = [1, 2, 3, 4, 5]

result = my\_list[::2]

A. [1, 3, 5]

B. [2, 4]

C. [5, 3, 1]

D. [1, 2, 3, 4, 5]

**Answer:** Option A

**Q2. What is the correct way to check if a key is present in a dictionary?**

my\_dict = {'name': 'John', 'age': 25}

key\_to\_check = 'age'

A. if key\_to\_check in my\_dict.keys():

B. if key\_to\_check in my\_dict:

C. if my\_dict.contains(key\_to\_check):

D. if my\_dict.exists(key\_to\_check):

**Answer:** Option B

**Q3. What will be the output of the following Python code?**

def outer\_function(x):

def inner\_function():

return x + 1

return inner\_function

closure = outer\_function(5)

result = closure()

print(result)

A.5

B.6

C.11

D. This code will result in an error

**Answer:** Option B

**Q4. Consider the following Python code:**

class CustomError(Exception):

def \_\_init\_\_(self, message):

super().\_\_init\_\_(message)

raise CustomError("An example custom error.")

**What will happen when this code is executed?**

A. The code will run without any errors.

B. The code will result in a TypeError.

C. The code will result in a NameError.

D. The code will raise a custom error of type CustomError.

**Answer:** Option D

**Q5. Consider the following Python code:**

def some\_function(\*args, \*\*kwargs):

return args, kwargs

result = some\_function(1, 2, a=3, b=4)

print(result)

**What will be the value of result?**

A. ((1, 2), {'a': 3, 'b': 4})

B. ([1, 2], {'a': 3, 'b': 4})

C. ((1, 2), ('a': 3, 'b': 4))

D. ([1, 2], ('a': 3, 'b': 4))

**Answer:** Option A