**NICF - Python Programming Intermediate Level Course**

**Written Assessment (Q&A)**

**A: Trainee Information:**

Trainee Name (as Per NRIC): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Tresha P Desai\_\_\_\_\_\_\_\_

NRIC: \_S9323516I\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date: \_\_\_\_24/02/2021\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**B: Assessment Instruction**

This is the Written Assessment (Q&A)

Duration: 50 mins

1. The assessor will pass the questions in hardcopy to you. There are 10 questions. You need to answer all the questions.

2. This is an open book exam that must be completed individually.

3. You need to code a Python program in a new Google Colab project.

4. You can use Python IDE or Google Colab to work out the answer.

**C: Questions**

Question 1: What is the output for [i for i in range(1,20) if i%3==0]

[3, 6, 9, 12, 15, 18]

Ans: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Question 2: What is the output for {(i,2\*i) for i in range(1,5)}?

Ans: {(1, 2), (2, 4), (3, 6), (4, 8)}\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Question 3: What is the answer for sum((i\*\*3 for i in range(10)))?

Ans: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_2025\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Question 4: path = "/User/ABC/test/foo.txt" . What is os.path.dirname(path)

Ans: \_\_\_\_\_\_\_\_\_\_\_\_ /User/ABC/test

Question 5: What is the syntax to open a file 'text.csv' for input?

Ans: \_\_\_\_\_\_f =open(‘file.txt’.’r’)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_-\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Question 6:

class Animal:

def \_\_init\_\_(color,legs):

self.color = color

self.legs = legs

Where is the error in the above code?

Ans: \_\_\_\_\_the term ‘self’ in def \_\_init\_\_(color,legs): is not there.

Correct answer is : def \_\_init\_\_(self, color,legs):\_\_\_\_\_\_\_\_\_

Question 7:

Given the parent class Animal, how to create and initialise a child class Cat?

Ans: \_\_\_\_\_\_\_\_\_\_\_\_\_\_class Cat(Animal):\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Question 8: What are the four CRUD operations in sqlite3?

Ans:

Create/Insert

Read

Update

Delete

Question 9:

What is the sqlite3 syntax to enter the following to a database table 'product'?

name - "mini fan"

price -14.60

color - "white"

Ans: cursor.execute("INSERT INTO product (name,price,color) values (?,?,?)",('mini fan',

14.60, ‘white’))

Question 10:

try:

a = int(input('Enter an integer : '))

except ValueError:

print("Please enter an integer")

else:

print("You enter ",a)

finally:

print("Please try again")

If user enters 5.6, what is the output?

Ans: Please enter an integer

Please try again

**D: Assessor Grading**

Grade: (C / NYC)

Assessor Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Assessor NRIC: \_\_\_\_\_\_\_\_\_\_\_\_\_

Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_