|  |  |
| --- | --- |
| **IIG Varsity**  GA-116, Gayatri Vihar, Kanan Vihar, Patia  Bhubaneswar, Odisha 751021  Email id: milan.das@iigvarsity.com  Mobile No.: 7978168568 |  |

Name of the candidate: Shakti Prasad Sahoo

……………………………………………………………………………………………………………………….

Test: **IIG-PY-2025-001**, Date: **06-06-2025 Time: 1:30 hours**

**SECTION-1 (Answer all Questions) Full Mark: 40**

1. Who developed Python Programming Language?
2. Wick van Rossum
3. Rasmus Lerdorf
4. Guido van Rossum
5. Niene Stom
6. Which type of Programming does Python support?
7. Object-Oriented Programming
8. Structured Programming
9. Functional Programming
10. All the mentioned
11. Which of the following is the correct extension of the Python file?
12. .python
13. .pl
14. .py
15. .p
16. All keywords in Python are in \_\_\_\_\_\_\_\_\_
17. Capitalized
18. Lower case
19. Upper case
20. None of the mentioned
21. What will be the value of the following Python expression?

print(4 + 3 % 5)

1. 7
2. 2
3. 4
4. 1
5. Which of the following is used to define a block of code in Python language?
6. Indentation
7. Key
8. Brackets
9. All the mentioned
10. Which keyword is used for function in Python language?
11. Function
12. def
13. Fun
14. Define
15. Which of the following character is used to give single-line comments in Python?
16. //
17. #
18. !
19. /\*
20. What will be the output of the following Python code?

**i = 1**

**while True:**

**if i%3 == 0:**

**break**

**print(i)**

**i + = 1**

1. 1 2 3
2. SyntaxError
3. 1 2
4. None of the mentioned
5. What is the output of the following code?

**try:**

**x = 10 / 0**

**except ZeroDivisionError:**

**print("Division by zero")**

**finally:**

**print("Finally block")**

1. Division by zero

Finally block

1. Finally block
2. Division by zero
3. ZeroDivisionError
4. Which of the following is not a core data type in Python programming?
5. Tuples
6. Lists
7. Class
8. Dictionary
9. What will be the output of the following Python code?

**x = 'abcd'**

**for i in x:**

**print(i.upper())**

1. a

B

C

D

1. a b c d
2. Error
3. A

B

C

D

1. What will be the output of the following Python code snippet?

for i in [1, 2, 3, 4][::-1]:

print(i, end=' ')

1. 4 3 2 1
2. Error
3. 1 2 3 4
4. None of the mentioned
5. To add a new element to a list we use which Python command?
6. list1.addEnd(5)
7. list1.addLast(5)
8. list1.append(5)
9. list1.add(5)
10. What will be the output of the following Python code?

list1 = [1, 3]

list2 = list1

list1[0] = 4

print(list2)

1. [1, 4]
2. [1, 3, 4]
3. [4, 3]
4. [1, 3]
5. Which of the following is a valid Python variable name?
6. 2var
7. \_myVar
8. my-var
9. my var
10. What will be the output of the following Python program?

**i = 0**

**while i < 5:**

**print(i)**

**i += 1**

**if i == 3:**

**break**

**else:**

**print(0)**

1. Error
2. 0

1

2

3

0

1. 0

1

2

1. None of the mentioned
2. What will be the output of the following Python code?

**x = 'abcd'**

**for i in range(len(x)):**

**print(i)**

1. Error
2. 1 2 3 4
3. a b c d
4. 0 1 2 3
5. What will be the output of the following Python code snippet?

**z=set('abc$de')**

**print('a' in z)**

1. Error
2. True
3. False
4. No output
5. Which of the following is a Python tuple?
6. {1, 2, 3}
7. {}
8. [1, 2, 3]
9. (1, 2, 3)

**SECTION-2 (Answer any 4 Questions) Full Mark: 60**

1. Develop a class Calculator with methods to add and subtract two numbers.
2. Bank Account Simulation with Insufficient Balance Handling:

Implement a class Bank Account that supports deposit and withdrawal. Raise a custom InsufficientFundsError if a withdrawal exceeds the balance.

1. Print a Hollow Inverted Pyramid Pattern.
2. Take a number from user and find the factorial of that number.
3. Take a string from user and Sum the ASCII values of the characters in that String.