Name of the candidate:

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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?
   A) Wick van Rossum
   B) Rasmus Lerdorf
   C) Guido van Rossum
   D) Niene Stom

2. Which type of Programming does Python support?
   A) Object-Oriented Programming
   B) Structured Programming
   C) Functional Programming
   D) All the mentioned

3. Which of the following is the correct extension of the Python file?
   A) .python
   B) .pl
   C) .py
   D) .p

4. All keywords in Python are in _____
   A) Capitalized
   B) Lower case
   C) Upper case
   D) None of the mentioned

5. What will be the value of the following Python expression?
   print(4 + 3 % 5)
   A) 7
   B) 2
   C) 4
   D) 1

6. Which of the following is used to define a block of code in Python language?
   A) Indentation
   B) Key
   C) Brackets
   D) All the mentioned

7. Which keyword is used for function in Python language?
   A) Function
   B) def
   C) Fun
   D) Define

8. Which of the following character is used to give single-line comments in Python?
   A) //
   B) #
   C) #!
   D) /

9. What will be the output of the following Python code?
```
i = 1
while True:
    if i%3 == 0:
        break
    print(i)

    i + = 1
```
   A) 1 2 3
   B) Syntax Error
   C) 1 2
   D) None of the mentioned

10. What is the output of the following code?
```
try:
    x = 10 / 0
except ZeroDivisionError:
    print("Division by zero")
finally:
    print("Finally block")
```
   A) Division by zero
      Finally block
   B) Finally block
   C) Division by zero
   D) ZeroDivisionError

11. Which of the following is not a core data type in Python programming?
    A) Tuples
    B) Lists
    C) Class
    D) Dictionary

12. What will be the output of the following Python code?
```
x = 'abcd'
for i in x:
    print(i.upper())
```
    A) a
       B
       C
       D

B) a b c d
C) Error
D) A
   B
   C
   D

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

```
for i in [1, 2, 3, 4][::-1]:
    print(i, end=' ')
```

A) 4 3 2 1
B) Error
C) 1 2 3 4
D) None of the mentioned

14. To add a new element to a list we use which Python command?
A) list1.addEnd(5)
B) list1.addLast(5)
C) list1.append(5)
D) list1.add(5)

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

list1 = [1, 3]
list2 = list1
list1[0] = 4
print(list2)

A) [1, 4]
B) [1, 3, 4]
C) [4, 3]
D) [1, 3]

16. Which of the following is a valid Python variable name?
A) 2var
B) _myVar
C) my-var
D) my var

17. 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)
```

A) Error
B) 0
   1
   2
   3

0
C) 0
1
2
D) None of the mentioned

18. What will be the output of the following Python code?
```
x = 'abcd'
for i in range(len(x)):
    print(i)
```
A) Error
B) 1 2 3 4
C) a b c d
D) 0 1 2 3

19. What will be the output of the following Python code snippet?
```
z=set('abc$de')
print('a' in z)
```
A) Error
B) True
C) False
D) No output

20. Which of the following is a Python tuple?
A) {1, 2, 3}
B) {}
C) [1, 2, 3]
D) (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.

3. Print a Hollow Inverted Pyramid Pattern.

4. Take a number from user and find the factorial of that number.

5. Take a string from user and Sum the ASCII values of the characters in that String.