RASHMIRANJAN BARAL
7PM BATCH

1.A function is defined as

a) A block of code designed to perform a specific task when (ANS) called.

b) A variable that holds multiple values of different types. c) A collection of data stored in a key-value pair format. d) A process that automatically executes without being called.

2.Why do we use functions in programming?

a) Remove the need for variables in a program.
b) Automatically fix syntax errors in the code.
c) Make the program run faster in all scenarios.
d) Reduce code duplication and improve

reusability.(ANS)

3.**How do you define a function in Python?**

a) function myFunc():
b) def myFunc(): (ANS)
c) create function myFunc()
d) myFunc define()

4. **What is the correct syntax to call a function named greet?**

a) greet[]
b) call greet()
c) greet() (ANS)
d) run greet()

5. **What happens if a function has no return statement?**

a) It raises an error.
b) It automatically returns None. (ANS)
c) It returns 0 by default.
d) It stops executing the program.

6. **Which of the following is not a valid function name in Python?**

a) my_function
b) 123function (ANS)
c) _myFunction
d) function_123

7. What will this code output?

```
def my_function(x, y=2, z=3):
 return x + y * z
```

```
print(my_function(5))
```

a) 11 (ANS)
b) 21
c) 17
d) TypeError

8. What error will this code raise?

```
def greet(name):
 print(f"Hello, {name}!")
greet()
```

a) SyntaxError
b) TypeError (ANS)
c) ValueError
d) No error

9. What happens when you execute this code?

```
def divide(a, b):
 return a / b
print(divide(4, 0))
```

a) ZeroDivisionError (ANS)
b) TypeError
c) ValueError
d) No error

10. What happens when you execute the following code?

```
def my_function():
 print("Hello, World!")
```

a) The function prints "Hello, World!".
b) A NameError is raised because the function is not called. c) No output is produced, and no error occurs.(ANS)
d) The function executes automatically.

11. What will this code output if the user enters 5?

```
def get_number():
 num = int(input("Enter a number: "))
 return num
result = get_number()
```

print(result)

a) 5 (ANS)
b) None
c) Error
d) The code won't run because the function doesn't have a

parameter. 12. **What will this code output if the user enters sai?** def

get_number():

num = int(input("Enter a number: "))

return num

result = get_number()

print(result)

a) 5
b) None
c) Value Error (ANS)
d) The code won't run because the function doesn't have a

parameter. **13. What is the output of this code if the user enters 10**

and 5? def complex_operation():

a = int(input("Enter the first number: "))

b = int(input("Enter the second number: "))

if a > b:

return a - b

elif a == b:

return a * b

else:

return a + b

print(complex_operation())

a) 5 (ANS)
b) 50
c) 15
d) Error

14. What happens if you run the following code?

def multiply(a, b):

```
 return a * b

multipliy(3,1)
```

a) It will multiply 3 by None.
b) It will raise a TypeError because b is missing.
c) It will return None.
d) NameError. (ANS)

15. What will the following code print?

```
def sum_values(a, b=2, c=3):
 return a + b + c

print(sum_values(5))
```

a) 10 (ANS)
b) 8
c) 5
d) Error

16. What type of error occurs in the following

code? def add_numbers(a, b):

```
 return a + b

add_numbers(5, 3)

 print("The sum is:", add_numbers(5, 3))
```

a) SyntaxError
b) IndentationError (ANS)
c) LogicalError
d) NameError

17. What happens if you run this code?

```
def multiply(x, y):

 return x * y

result = multiply(3)

print(result)
```

a) Type Error (ANS)
b) IndentationError
c) LogicalError
d) SyntaxError

18. What type of error will this code

produce? def greet():

print("Hello, World!")

greet()

a) IndentationError (ANS)
b) SyntaxError
c) NameError
d) TypeError

19. What type of error will this code produce?

def add(x, y = "3"):

    return x + y

print(add(5))

a) TypeError (ANS)
b) ValueError
c) SyntaxError
d) None

20. **What will be the output of this code if the user enters 5 and**

10? def add_numbers(a, b):

 return a + b

x = input("Enter the first number: ")

y = int(input("Enter the second number: "))

print(add_numbers(x, y))

a) 15
b) TypeError
c) 5 + 10 (ANS)
d) None