

Multiple Choice Questions

1. _____ control statement repeatedly executes a set of statements.
 - a. Iterative
 - Conditional
 - b. Multi-way
 - c. All of these
2. Deduce the output of the following code.

If False and False:

```
Print("And Operation")
```

Elif True or False:

```
Print("Or Operation")
```

Else:

```
Print("Default case")
```

- a. And Operation
 - Or Operation
 - b. Default Case
 - c. B and C option
3. Predict the output of the following code.

```
i = 1
```

While True:

```
If i%2==0:
```

```
    Break
```

```
    Print(i)
```

```
I+=1
```

- 1
 - a. 12
 - b. 123
 - c. None of these
4. Which keyword is used to take the control to the beginning of the loop?
 - a. exit
 - b. break
 - continue
 - c. None of these
5. The step argument in range () function _____.
 - a. indicates the beginning of the sequence
 - b. indicates the end of the sequence
 - indicates the difference between every two consecutive numbers in the sequence
 - c. generates numbers up to a specified value
 6. The symbol that is placed at the end of if condition is
 - a. ;
 - :
 - b. &
 - c. ~

7. What is the keyword that is used to come out of a loop only for that iteration?

- ✓ break
- a. return
- b. continue
- c. if

8. Judge the output of the following code snippet.

For I in range(10):

```
If I == 5:  
    Break  
Else:  
    Print(i)
```

- ✓ 0 1 2 3 4
- a. 0 1 2 3 4 5
- b. 0 1 2 3
- c. 1 2 3 4 5

9. Predict the output of the following code snippet.

```
while True:
```

```
    print(True)  
    break
```

- ✓ True
- a. False
- b. None
- c. Syntax error

10. The output of the below expression is

```
>>>10 * (1/0).
```

- a. OverflowError
- ✓ ZeroDivisionError
- b. NameError
- c. TypeError

11. How many except statements can a try-except block have?

- a. Zero
- b. One
- ✓ More than one
- c. More than zero

12. When will the else part of the try-except-else be executed?

- a. Always
- b. When an exception occurs
- c. When no exception occurs
- ✓ When an exception occurs in a try block

13. When is the finally block executed?

- a. When an exception occurs
- b. When there is no exception
- c. Only if some condition that has been specified is satisfied
- ✓ always

14. The keyword that is not used as an exception handling in Python?

- a. try
- b. except
- c. accept
- ✓ d. finally

15. An exception is

- a. A object
- ✓ b. A special function
- c. A special module
- d. A module

16. The set of statements that will be executed whether an exception is thrown or not?

- a. except
- b. else
- ✓ c. finally
- d. assert

17. Predict the output of the following code snippet.

```
while True  
    print("Hello World")
```

- ✓ a. Syntax Error
- b. Logical Error
- c. Run-time error
- d. None of these

18. Gauge the output of the following statement?

```
Int ("65.43")
```

- a. Import error
- ✓ b. Value error
- c. Type error
- d. Name error

19. The error that is not a standard exception in Python.

- a. Name Error
- ✓ b. Assignment Error
- c. IO Error
- d. Value Error

20. The function that generates a sequence of numbers which can be iterated through using *for* loop.

- ✓ a. input()
- b. range()
- c. list()
- d. raw_input()

21. What is the output of the following code snippet?

```
x = 'abcd'  
for i in x:  
    print(i)  
✓ abcd
```

- a. 0 1 2 3
 - b. iiini
 - c. Traceback
22. The function of while loop is
- a. Repeat a chunk of code a given number of times.
 - ✓ Repeat a chunk of code until a condition is true.
 - b. Repeat a chunk of code until a condition is false.
 - c. Repeat a chunk of code indefinitely.

Review Question

1, Briefly explain the conditional statements available in Python.

(If, else, elif) if it's like a decision process which will
choose one path, first if (if), then elif
else, then else if, then else if, then else if
then else if, then else if, then else if, then else if

2, Explain the syntax of for loop with example.

for (loop, iteration, goes through, list) :- for

For each-character in "Blue":

Print("Iterate through characters
each-character in the st 'Blue'")

Out Put:

Iterate through character B in the st 'Blue'

Iterate through character I in the st 'Blue'

B I U
 E

3, What's the purpose of using break and continue?

Break: to stop the loop, if we want to stop the loop

Continue: to skip the current iteration, if we want to skip the current iteration

stop the current iteration

4) Differentiate the syntax of (if else) and (if, elif, else) with an example.

if, else دو فریضیاں ہیں کہ اگر if (if else) کا جواب مثبت ہے تو
فرضیہ else کا جواب نہیں اور اگر if (if else) کا جواب منفی ہے تو
فرضیہ elif کا جواب مثبت ہے اور اگر if (if else) کا جواب منفی ہے تو

$x = 10$

if $x \leq 10$:
print("Green")

elif $x = 8$:

print("Yellow")

else:

print("Red")

5) Explain the use of range() Function with example.

range() فونکشن کا یہ کام ہے کہ اس کا ایسا دائرہ مانند
کام کرے جو اس کے درمیانی ایسا دائرہ کام کرے جو اس کے درمیانی

For i in range(5):

print(i)

Output:-

0
1
2
3
4

6) Why would you use a try-except in a Program?

try-except (exception handling) کا کام کیا جاتا ہے کہ

7) Explain the syntax of while loop with example

مکعب : while :- ناچار اینجیں لوقتی کرنا پڑتا ہے،
 $i = 0$

Whole is 5:

```
Print(F"current value of i is {i}")
```

Q4) If $i =$ current value of i is 0

current value of i is 1.

↓ current value of i is 4

Q. Differentiate between syntax error and exception.

مان (از نظر تحریک) در این ماده؛ مادر مانند مادران نیستند.

9, Explain the syntax of the try-except-Finally ^{block}

جُو (جو) :- ناچاری و رسمی دلکشی ((سینے کو) (سینے کو) میں

protection in wild animals; 1900's: Try

جیز (جیز) نہیں (نہیں) ملکیت (ملکیت) کو (کو) گذاری (گذاری) سے (سے) Except

نیز مبتدی (بیانیہ) اور پیشرفتمانی (ر) - ۱ Finance

مهم الامر ای سسٹھ فیلم خلیج اریاباط وغیرہ (ستھا 2000 میلے)

١١: بارگاه

١٠) write a program to read the Richter magnitude value from the user and display the result for the following conditions using if, elif else

magnitude = float(input("enter the richter")) :- جواب

if magnitude > 1,0 and magnitude < 2,0:

Print ("Microearthquakes not Felt or rarely")

elif magnitude >= 2,0 and magnitude < 4,0:

Print ("very rarely causes damage")

elif magnitude >= 4,0 and magnitude < 5,0:

Print ("Damage done to weak buildings")

else:

Print ("Invalid magnitude")

١١) write a program to display Pascal's triangle.

She int(input("Enter number")):- جواب

For i in range(sh):

num = 1

print("*" * (sh - i), end=" ")

for j in range(i+1):

print(num, end=" ")

num = num * (i-j) // (j+1)

print()

12) write a program to display the following pattern using nested loops.

```
1      for i in range(1,6): -: ب
2      1 2 3
3      2 3 4 = for j in range(i):
4      3 4 5   for j in range(i):
5      4 5 5   print(i, end="")
               print()
```

```
12     for i in range(1,6):
123    1 2 3 = for j in range(i,0,-1):
1234   2 3 4   print(j, end="")
12345  3 4 5   print()
```

13) write a program that uses a while loop to add up all the even number between 100 and 200

```
num=100
```

```
total=0
```

```
while num<=200:
```

```
if num%2==0:
```

```
    total+=num
```

```
    num+=1
```

```
print("sum of even numbers between 100-200  
is:", total)
```

14) write a program to Print the sum of the
Following Series

a) $1 + \frac{1}{2} + \frac{1}{3} + \dots + \frac{1}{n}$

جواب

```
n = int(input("Enter n: "))
```

```
sum-series = 0
```

```
for i in range(1, n+1):
```

```
    sum-series += 1/i
```

```
print("sum of series  $1 + \frac{1}{2} + \frac{1}{3} + \dots + \frac{1}{n} =$ " sum-series)
```

b) $\frac{1}{1} + \frac{2}{2} + \frac{3}{3} + \dots + \frac{n}{n}$

```
n = int(input("Enter n: "))
```

```
sum-series = 0
```

```
for i in range(1, n+1):
```

```
    sum-series += (i * i) / i
```

```
print("sum of series  $\frac{1}{1} + \frac{2}{2} + \frac{3}{3} + \dots + \frac{n}{n} =$ " sum-series)
```