

Answer the following questions from Group-A, B & C as directed.

**GROUP –A**

1. Choose the correct alternative (Any 10)

1 x 10=10

- i) Which one of the following is not a keyword in Python language? A) pass b) eval c) assert d) nonlocal
- ii) The input() function takes user's input as a - a) integer b) float c) string d) character
- iii) What is the output of the following?
- ```
x = ['ab', 'cd']
for i in x:
    x.append(i.upper())
print(x)
```
- a) ['AB', 'CD'].    b) ['ab', 'cd', 'AB', 'CD'].    c) ['ab', 'cd'].    d) none of the mentioned
- iv) Which statement is used to terminate the execution of the nearest enclosing loop in which it appears? a) Pass b) break c) continue d) jump
- v) What will be the output of Python code snippet `x<<2` if `x=1`? a) 4 b) 2 c) 1 d) 8
- vi) The default access mode is a) r b) w c) rb d) wb
- vii) DRY principle makes the code a) Reusable b) Loop forever c) Bad and repetitive d) Complex
- viii) What will be the output of the following Python function?
- ```
min(max(False,-3,-4), 2,7)
```
- a) -3 b) -4 c) error d) false
- ix) What will be the output of the Python expression `round(4.576)`? a) 4 b) 4.6 c) 5 d) 4.5
- x) Which function is called an anonymous function? a) Lambda b) Map c) Filter d) Reduce
- xi) What does pip stand for python? a) Unlimited length b) All private members must have leading and trailing underscores c) Preferred Installer Program d) None of these
- xii) Which of the following functions can help us to find the version of python that we are currently working on? a) `sys.version(1)` b) `sys.version(0)` c) `sys.version()` d) `sys.version`
- xiii) What will be the output of `print(10,20,30,sep="/")` a) 10 20 30 b) 10/20/30 c) 10\20\30 d) error
- xiv) Which of the following is a Python tuple? a) {1, 2, 3} b) {} c) [1, 2, 3] d) (1, 2, 3)
- xv) Predict output for the snippet
- ```
for j in range(1,5):
```

print(j)

a) 1 2 3 4 , b) indentation error. c) j j j j, d) j

j  
j  
j  
j

2. Fill in the blanks (Any ten):

1 x 10=10

- i) All keywords in Python are in \_\_\_\_\_.
- ii) The Python built-in function for viewing variable types is \_\_\_\_\_.
- iii) Django supports the \_\_\_\_\_ pattern.
- iv) a = 5, b = 6

a, b = b, a

print(a,b) \_\_\_\_\_ is the final output.

v) To convert '5' into int data type \_\_\_\_\_ command is used.

vi) Open() function is used for \_\_\_\_\_.

vii) a = 10 << 12

b = 34 >> 10, c = 7 | 13, d = 12 ^ 13

print(a,b,c,d) \_\_\_\_\_ is the output.

viii) To find  $x^y$ , you will use \_\_\_\_\_ operator.

ix) A program in python is stored with a \_\_\_\_\_ extension.

x) The value of the expression `set([1, 1, 2, 3])` is \_\_\_\_\_.

xi) \_\_\_\_\_ method is used to delete a file.

xii) The \_\_\_\_\_ statement is a combination of an else statement and an if statement.

xiii) import time

a = time.localtime()

c = time.asctime(a)

print(c)

xiv) \_\_\_\_\_ is the output.

xv) The `13//((4+3%5))` evaluates to \_\_\_\_\_.

3. Answer the following questions (any ten)

1 x 10 = 10

- i) What is a lambda function?
- ii) What is an Interpreted language?
- iii) What is the purpose of `isatty()` ?
- iv) What are python iterators?
- v) What is Scope in Python?
- vi) How to comment multiple lines in python?
- vii) Explain `find()` function.
- viii) How will you capitalize the first letter of string?
- ix) What is the purpose of `flush()` ?
- x) What are Python's dictionaries?
- xi) How can you generate random numbers?
- xiii) What is PEP 8?
- xiv) What is the purpose of the `PYTHONPATH` environment variable?
- xv) Is python a case-sensitive language?

**GROUP –B**

2x6=12

4. Answer the questions (Any six)

- i) What is slicing?
- ii) What are membership operators?
- iii) Differentiate between continue and break statement.
- iv) Differentiate between globals() and locals()
- v) Name two file built-in functions. Give their syntax.
- vi) What is the difference between Python Arrays and lists?
- vii) Give two ways to convert a number into a string.
- viii) B=3, A=2. Swap the values of these variables.
- ix) How can the ternary operators be used in python?
- x) How do you insert a static file to a template in Django?
- xi) Is Django better than Flask?
- xii) Write a Python code to add the values of two variables.

**GROUP –C**

6x1

5. Answer the question (any one)

- a) Explain the basic data types available in Python with examples.
- b) What is the difference between list and tuples in Python? What are the key features of Python?
- c) Write a Python program to print the factorial of a number.

6x1

6. Answer the question (any one)

- a) What is difference between module and package? Is pandas a module or package?
- b) Explain different types of loops available in Python with suitable examples.
- c) Write a python program to check whether the number given is a palindrome or not.

6x1

7. Answer the question (any one)

- a) What are input and output files? How do you use input and output files in Python?
- b) Write a Python program to calculate the length of a string.
- c) Write a python function to print multiplication table from 1 to 10.