

Roll No.

BCA-3001

**Department of Computer Application
UIET, CSJM UNIVERSITY, KANPUR
Python Programming (BCA-3001)**

Semester: 2023-24 (Odd Semester)

Time: 03:00 hrs

End Semester Examination

Year: 2nd

Maximum Marks 75

All sections are compulsory.

Section—A

(Short Answer Type Questions)

All questions are compulsory. Each question carries 3 marks.

[9*3=27]

1. (A) Briefly explain features of python language. [3]
(B) Explain about datatype used in python language. [3]
(C) Write a program to check a given number is even or odd. Number is given by user. [3]
(D) Write a program to print all prime numbers from 1 to 100. [3]
(E) Write the difference between tuple and dictionary. [3]
(F) Write two built in module with briefly explain in python? [3]
(G) What is lambda function explain with two examples. [3]
(H) Why do we need a datetime class in python. [3]
(I) How can you raise an exception in python explain with example. [3]

Section—B

(Long Answer Type Questions)

Attempt any two questions. Each question carries 12 marks.

[2*12=24]

2. a. Explain about functions in python? [4]
b. Write a python function to multiply all the numbers in a list. [4]
c. Explain the type of arguments used in python function. [4]
3. a. Write the difference between a normal function and lambda function. [4]
b. Write a program using lambda and filter method. [4]
c. Write a python program to sort list of tuple using lambda. [4]
4. a. What is Datetime module? [4]
b. What is exception? Write the difference between Error and Exception. [4]
c. Write a custom exception with multiple except blocks. [4]

Section---C

(Long Answer Type Questions)

Attempt any two questions. Each question carries 12 marks.

[2*12=24]

5. a. What is Python IDLE? [6]
b. What is looping? Explain with example. [6]
6. a. Write a program in python convert a list into tuple. [6]
b. Write the features of dictionary with example. [6]
7. a. What is set in python? Write the difference between set and dictionary. [6]
b. Write a python program of drop empty items from a given dictionary. [6]
8. a. What is the calendar module? Explain with two examples. [6]
b. Explain the use of docstring in python with an example. [6]