

**ANURAG Engineering College**

(An Autonomous Institution)

III B.Tech I Semester Supplementary Examinations, June/July - 2024

**PROGRAMMING WITH PYTHON**

(COMPUTER SCIENCE AND ENGINEERING)

**Time: 3 Hours****Max. Marks: 75****Section – A (Short Answer type questions)****(25 Marks)****Answer All Questions**

	Course Outcome	B.T Level	Marks
1. Write the features of Python	CO1	L1	2M
2. How does indentation work in python	CO1	L1	3M
3. What is type conversion in python?	CO2	L1	2M
4. How will you create the following pattern using Python? * ** *** **** *****	CO2	L2	3M
5. What is the different file-processing modes in Python?	CO3	L1	2M
6. How do you remove the leading whitespace in a string?	CO3	L2	3M
7. Differentiate between the append() and extend() methods of a list.	CO4	L2	2M
8. Define dictionary with an example.	CO4	L1	3M
9. What are the different ways to import modules in python?	CO5	L2	2M
10. Write a recursive function for finding the sum of elements of a list.	CO5	L2	3M

**Section B (Essay Questions)****Answer all questions, each question carries equal marks.****(5 X 10M = 50M)**

11. A) How to install Python on Windows and to set path variable?	CO1	L2	10M
<b>OR</b>			
B) What are the python keywords? Explain about <b>in</b> , <b>is</b> and <b>pass</b> keywords in python with examples?	CO1	L2	10M
12. A) i) Explain the use of <b>break</b> and <b>continue</b> in iterative statements? ii) Write a Python program to count the number of even and odd numbers from a series of numbers using <b>continue</b> statement.	CO2	L2	5M 5M
<b>OR</b>			
B) Write the uses of built-in functions in python? Explain about any five built-in functions in python.	CO2	L2	10M
13. A) i) Explain about string methods in python. ii) Write a python program to sort words in alphabetic order.	CO3	L2	6M 4M
<b>OR</b>			
B) i) Discuss about file processing modes in python. ii) Write a python code to display the content of a file in reverse order.	CO3	L2	6M 4M
14. A) i) Write the differences between list and tuple? ii) How to convert a list into a tuple?	CO4	L2	5M 5M
<b>OR</b>			
B) What are negative indexes in lists? Why are they used?	CO4	L2	10M

15. A) Explain about default arguments in python functions with examples. CO5 L2 10M
- OR**
- B) i) What is recursion? How to create recursive function in python? CO5 L3 5M  
ii) Write a python program to find the length of a string using recursion. 5M