QP CODE: 25021082

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Reg No : .....

Name : .....

B.Sc DEGREE (CBCS) REGULAR / REAPPEARANCE / MERCY CHANCE EXAMINATIONS, FEBRUARY 2025

Sixth Semester

B.Sc Computer Science Model III

CHOICE BASED CORE COURSE - CC6CBT01 - PYTHON AND LATEX

2017 Admission Onwards

5B6ADD41

Time: 3 Hours Max. Marks : 80

Part A

*Answer any **ten** questions.*

*Each question carries **2** marks.*

1. Write in brief about any four keywords in python.
2. What is the purpose of % operator in Python?
3. How can you convert a string to one with lower case characters in Python?
4. Is it possible to use the += operator with two separate lists in python? What will be the result?
5. What is a tuple? What are its advantages over list?
6. List the types of function.
7. What is the purpose of return statement?
8. State the syntax for seek() and tell() functions.
9. Define a directory.
10. Give the purpose of \usepackage tag.
11. List out the various options that can be specified to control columns in document.
12. Name the package which is used to put header and footer in a LaTeX document and show its usage.

(10×2=20)

Part B

*Answer any **six** questions.*

*Each question carries **5** marks.*

13. Write a python script to find the sum of two complex numbers.
14. How do you represent floating point number in Python?
15. Whar are the conditional structures available in python? Explain.
16. Write a program to check if a given number is prime or no.
17. Write a Python function to check whether a given number is odd or even.
18. Differentiate read() and readline() methods used in files
19. Save the details of a student(roll,Name,TotalMark) into a file 'student.txt' without type conversion.
20. Explain the use of footnotes in a document. How footnotes can be included in LaTeX.
21. Explain how to place a rotated image in a page using LaTeX tags.

(6×5=30)

Part C

*Answer any **two** questions.*

*Each question carries **15** marks.*

22. Explain the basic data types available in Python with examples.
23. Explain various dictionary operations with example.
24. Explain recursive,fruitful and pure functions used in python with examples.
25. Explain Exception handling in python.

(2×15=30)