Turn Over

QP CODE: 24001324

Reg No 5 Name ÷.

B.Sc DEGREE (CBCS) REGULAR / REAPPEARANCE EXAMINATIONS, MARCH 2024

Sixth Semester

B.Sc Computer Science Model III

CHOICE BASED CORE COURSE - CC6CBT01 - PYTHON AND LATEX

2017 Admission Onwards

A6300123

Time: 3 Hours

Max. Marks: 80

Part A

Answer any ten questions. Each question carries 2 marks.

- 1. Define value in Python? Give examples
- 2. What is meant by type conversion?
- How can you repeat a string? 3.
- Analyze the importance of indentation in python. 4.
- 5. Explain various methods to create a tuple in python.
- 6. What is the purpose of return statement?
- 7. Define recursion.
- 8. Define file and give its advantages
- 9. Define a directory.
- 10. What is the basic principle of LaTeX
- 11. Write doen the tags used for altering the text alignment in LaTeX document.
- 12. Give an example for how to change the default list item symbol to '+' in an un ordered list .

 $(10 \times 2 = 20)$

Part B

Answer any six questions. Each question carries 5 marks.

- 13. What do you meant by Assignment statement in Python?
- 14. Write a Python script which takes the length and breadth of a rectangle from the user and finds area.





- 15. Write program to accept a number from the keyboard and check whether it is odd or even.
- 16. With suitable example explain the values and items methods in dictionary.
- 17. Explain parameterized functions in python.
- 18. Differentiate read() and readline() methods used in files.
- 19. Write a program to store data into a file using both write and append modes.
- 20. Describe the use of fancyhdr package for setting up header and footer with examples.
- 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. Compare list and tuple.
- 24. Explain about functions in python.
- 25. Explain Exception handling in python

(2×15=30)