| 209701

OECS-301

Rep

III Semester All U.G. Courses Degree Examination,
December/January - 2025/26
(NEP Scheme Repeaters)
COMPUTER SCIENCE
Python Programming Concepts (Open Electives)

HORIZON COLLEGE
LIBRARY
KASTURINAGAR
BANGALORE-43

Time : 2½ Hours **Maximum Marks : 60**

***Instructions*:**

Answer all the sections.

SECTION - A

I. Answer any Six questions. Each question carries 2 marks. **(6×2=12)**

1. Define a computer.
2. Convert $(101101)_2$ into its decimal equivalent.
3. Write any two real-world applications of Python.
4. What is an identifier? Give two valid examples.
5. Write the syntax of the if statement in Python.
6. What is the role of the range ( ) function in loops?
7. What is function?
8. What is the purpose of return statement?
9. What is string? Give an example.

SECTION - B

II. Answer any Four questions. Each question carries 6 marks. **(4×6=24)**

10. Explain characteristics of computers.
11. Differentiate between System Software and Application Software.

[P.T.O.

12. Describe the advantages of Python programming language.

13. Explain while loop with example.

14. Explain the concept of command-line arguments with an example.

15. Explain string concatenation and comparison with examples.

SECTION - C

III. Answer any Three questions. Each question carries 8 marks. **(3×8=24)**

16. Explain the basic organization of a digital computer with a neat block diagram. **(8)**

17. Explain different types of operators in Python with suitable example. **(8)**

18. Explain any two control statements with examples. **(8)**

19. Explain built-in function and user defined function with example. **(8)**

20. Explain string creation, indexing, and accessing string characters with examples. **(8)**