



OECS – 301

III Semester All UG Courses Examination, February/March 2024

(NEP Scheme) (Freshers and Repeaters)

COMPUTER SCIENCE

Python Programming Concepts (Open Elective)

Time : 2½ Hours

Max. Marks : 60

Instruction : Answer **all** the Sections.

SECTION – A

I. Answer **any 6** questions. **Each** question carries **2** marks.

(6×2=12)

- 1) What is super computer ?
- 2) What is ASCII code and unicode ?
- 3) Write any two applications of Python ?
- 4) What is meant by Indentation ?
- 5) What is the purpose of using break and continue ?
- 6) What is the purpose of exit() ?
- 7) List the two types of functions used in Python.
- 8) What is join operation in string ?
- 9) What is extension of Python file ?



SECTION – B

II. Answer **any 4** questions. **Each** question carries **6** marks.

(4×6=24)

- 10) Explain the basic organization of a Digital Computer.
- 11) Explain the concept of algorithm with an example.
- 12) Discuss the concept of data types in Python with examples.
- 13) Discuss the differences between while loop and for loop in Python.
- 14) Explain function calling with examples.
- 15) Explain the concept of escape sequences in Python strings and provide examples.

P.T.O.



SECTION – C

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

- 16) Explain the characteristics of computer.
- 17) Explain the different types of translators in details.
- 18) a) Explain type conversion in Python with examples. (4)
 b) Write a Python program to demonstrate input() and print() functions. (4)
- 19) Explain the following :
 - a) if-else
 - b) elif. (4+4)
- 20) Explain slicing and joining in strings.



SECTION – B

(4×8=32)