# **B.Sc. 3rd Semester (Honours) Examination, 2023-24**

## **COMPUTER SCIENCE**

Course ID: 31515 Course Code: SH-CSC-305/SEC-1

**Course Title: Programming in Python** 

[Syllabus 2017-18 & 2022-23]

Time: 1 Hour 15 Minutes

Full Marks: 25

The figures in the right margin indicate marks.

Candidates are required to answer in their own words as far as practicable.

#### **UNIT-I**

1. Answer any five from the following questions:

 $5 \times 1 = 5$ 

- a) What is token? Give some example.
- Evaluate the expression: 6\*3+4\*\*2//5-8.
- What do you mean by debugging in programming?
- Why python is interpreted language?
- Why python is dynamic typed language?
- What is pass in python?
- g) What are modules and packages in python?
- h) Can we access a key using its value of dictionary data type?

#### **UNIT-II**

2. Answer any two from the following questions:

 $2 \times 5 = 10$ 

(A)

Write a python program to check whether a given number comes under the given series (1,3,5,7,11,13,17,19,23) or not.

*(*6)

Explain break and continue statement in python with proper example.

X

Write an algorithm that finds the reverse of a given number. (Do not write in python code)

#### **UNIT-III**

*\$*.\

Answer any one from the following questions:

 $1 \times 10 = 10$ 

a)

Explain 5 string function or method in python. What are the membership operators available in python? Explain functionalities of them with example.

5+5

b) What is default argument? Give example. Write Python program to find number of words those are starting with letter 'a' in a given string.

4+6

# BANKURA SAMMILANI COLLEGE Dept. Of Computer Science Internal assessment Examination- 2023 Sem: III (Hons.) Paper: SEC-I

Full marks: 5

Time: 30 min

## Answer any Five questions:

5\*1=5

- 1. What is the difference between list and tuples in Python?
- 2. What are the common built-in data types in Python?
- 3. What is slicing in Python?
- 4. Is python case sensitive?
- 5. What is the difference between Python Arrays and lists?
- What is the use of range() function?
  - How do you write comments in python?
- 8. What is a dictionary in Python?

### B.Sc. 3rd Semester (Honours) Examination, 2023-24 **COMPUTER SCIENCE**

Course Code: SH-CSC-305/SEC-1 **Course ID: 31525** Course Title: Programming in Python (Practical)

[Syllabus 2017-18 & 2022-23]

Time: 2 Hours

Full Marks: 15

The figures in the right margin indicate marks.

Candidates are required to answer in their own words as far as practicable.

[Problem = 10, LNB + Viva voce = 05]

Answer any one of the following questions:  $10 \times 1=10$ 

- Write a python program that will check a given string having at least 5 vowel characters.
- Write a python program to multiply two matrix.
- Write a program that takes a positive integer n and 3. then produces n lines of output shown as follows. For example enter a size:

Write a function that takes an integer n as input and calculates the value of 1 - 1/1! + 1/2! - 1/3! + 1/n!.

entractioning is think

or properties of religions

Write a program to calculate the GCD and LCM of two numbers.

(2)

Write a python code that will calculate permutation value of P(n,x). where n and x are two user input number.

(3)

304/Comp. Sc/PR