

BANKURA UNIVERSITY

B.Sc. Semester-III(Honours) Examination, 2021

Subject: Computer Science

Course Code.: SH/CSC/305/SEC-1

Course ID.: 31515

Course Title: Programming in Python

Full Marks: 25

Time: 1Hr. 15min.

The figures in the margin indicate full marks

Answer all the questions.

UNIT-I

1. Answer any five questions: 1×5=5
- (a) What is Algorithm?
 - (b) What is variable? Give example.
 - (c) How to define dictionary variable in python? Give example.
 - (d) Name two fourth generation programming languages.
 - (e) Mention purpose of two logical operators in python?
 - (f) What is the use of power operator in python?
 - (g) How lists are different from tuple?
 - (h) What is interpreter?

UNIT-II

2. Answer any Two questions: 5×2=10
- (a) Explain the Identifiers, Keywords, Statements, Expressions, and Variables in Python programming language with examples.
 - (b) Explain the basic data types available in Python with examples.
 - (c) Write a Python code to check if a given year is a leap year or not.
 - (d) Explain with an example of for loop, break statement and continue statement in Python.
 - (e) Draw the flowchart to check whether a given number is prime or not.

UNIT-III

3. Answer any one question: 10×1=10
- (a) Describe Arithmetic Operators, Assignment Operators, Comparison Operators, Logical Operators and Bitwise Operators in Python with examples.
 - (b) Write a Python program to swap two numbers without using Intermediate/Temporary variables. Prompt the user for input.
Explain the concept of scope and lifetime of variables in Python programming language with an example.