

**BANKURA UNIVERSITY**

***B.Sc. Semester-I(Programme) Examination, 2021***

***Subject: Computer Science***

***Course Code. SP/CSC/101/C-1A***

***Course ID.: 11518***

***Course Title: Problem Solving using Computer***

***Full Marks: 25***

***Time: 1hr 15 mins***

**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 the two main parts of CPU?
  - (b) Why we use hexadecimal number system?
  - (c) What is primary memory? Give example.
  - (d) What is the full form of ASCII?
  - (e) What is Algorithm?
  - (f) How list is different from tuple in Python?
  - (g) What is interpreter? Give example
  - (h) What is the syntax of for loop in Python?

***UNIT-II***

2. Answer any Two questions: 5×2=10
- (a) What are the characteristics of computer?
  - (b) Explain the Identifiers, Keywords, Statements, Expressions, and Variables in Python programming language with examples.
  - (c) Explain the basic data types available in Python with examples.
  - (d) Write an algorithm to check whether a given number is palindrome or not.

***UNIT-III***

3. Answer any one question: 10×1=10
- (a) Draw the basic architecture of modern computer and explain each part.
  - (b) Write 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. 5+5=10