

CSE 101: Introduction to Computer Studies (Sec-6)

Department of Computer Science and Engineering

University of Liberal Arts Bangladesh

Course Title: Introduction to Computer Studies

Course Code: CSE 101

Total Marks: 20

Time: 45 minutes

Name: _____ **ID:** _____

1. A software reads an English passage from a text file (say **englishPassage**). Afterwards it translates the passage into Bangla (say **banglaPassage**). It stores the translated Bangla text into another file. Briefly describe the data flow when the software is running. **4**

2. Convert $(12.625)_{10}$ to binary and then convert the binary to decimal. **8**

3. Perform the following binary operations:

8

a) $(1101)_2 + (1010)_2$

b) $(1100)_2 - (1011)_2$

c) $(110)_2 \times (100)_2$

d) $(110111)_2 \div (101)_2$