## Department of Computer Science and Engineering University of Liberal Arts Bangladesh

Mid Term Examination Semester – Spring 2020

Course Title: Introduction to Computer Studies

Course Code : CSE 101 (Sec: 6)
Duration : 1:00 Hours

## PLEASE ANSWER ALL QUESTIONS.

Total 20 Marks

QUESTION 1 7 marks

Perform the following binary operations:

- a)  $(1100000)_2 (1011111)_2$
- **b)**  $(10111)_2 \div (101)_2$
- **c)**  $(1100)_2 \times (1101)_2$

QUESTION 2 7 marks

Write Short notes on the following topics. Also provide at least one example for each of them:

- a) Push Technology and Pull Technology
  - **b)** Cloud Computing
  - c) Impact printers and Non-impact printers

QUESTION 3 4 marks

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.

QUESTION 4 2 marks

Write the impacts and applications of computers in education and healthcare.

\*\*END OF QUESTIONS\*\*