

**Department of Computer Science and Engineering**  
**University of Liberal Arts Bangladesh**  
**Mid Term Examination**  
**Semester – Fall 2019**  
**Course Title: Introduction to Computer Studies**  
**Course Code : CSE 101 (Sec: 8)**  
**Duration : 1:00 Hours**

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**PLEASE ANSWER ALL QUESTIONS.**

**Total 20 Marks**

**QUESTION 1**

**7 marks**

Perform the following binary operations:

- a)  $(11000000)_2 - (10111111)_2$
- b)  $(10101)_2 \div (101)_2$
- c)  $(1011)_2 \times (1101)_2$

**QUESTION 2**

**7 marks**

Perform the following conversions:

- a)  $(567)_8$  to Hexadecimal
- b)  $(45.6875)_{10}$  to binary
- c)  $(10011.11011)_2$  to decimal

**QUESTION 3**

**4 marks**

Identify and categorized various entities of the following Computer Based Systems (CBS) into software, hardware & user.

- a) Spotify (Music Streaming App which is available for both desktop and mobile)
- b) PUBG Mobile

**QUESTION 4**

**2 marks**

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

**\*\*END OF QUESTIONS\*\***