

**Department of Computer Science and Engineering**  
**University of Liberal Arts Bangladesh**  
**Course Title: Introduction to Computer Studies**  
**Course Code: CSE 101 (Sec: 6)**

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**PLEASE COMPLETE ALL THE TASKS.**

**TASK 1**

Briefly describe the applications of computers in business and education.

**TASK 2**

Write a short note on “Abacus”. What impacts did AltAir 8800 and Macintosh computers have when they were first introduced?

**TASK 3**

Perform the following conversions:

- a)  $(EBAB)_{16} = (?????)_8$
- b)  $(12.345)_{10} = (??)_2$

**TASK 4**

Perform the following calculations:

- a)  $(1001)_2 \times (1011)_2$
- b)  $(11000)_2 \div (101)_2$

**TASK 5**

Define Ergonomics and describe how it affects the computer user. How would you suggest a user should be using computer so that Repetitive Strain Injury (RSI) can be avoided?

**TASK 6**

Define and give examples of the following:

- a) Egocentric Environment and Exocentric Environment
- b) Pull Technology and Push Technology
- c) Software as a service (SaaS)
- d) Virtual Reality