

**TABLE OF SPECIFICATIONS FOR EXAM QUESTIONS**  
**University of Liberal Arts Bangladesh**  
**Department: Computer Science and Engineering (CSE)**  
**Final Examinations, Semester: Fall 2019**  
**Program: B.Sc. in CSE**

**Course Code:** CSE 101      **Course Title:** Introduction to Computer Studies      **Credit Hours:** 3

**Time:** 2 Hours      **Total Marks:** 40

**Name & Designation of the Examiner:** Satyaki Das, Lecturer

**Learning Outcomes (LO):**

<b>1. Describe</b> the concept and components of computing system along with its benefits
<b>2. Explain</b> features and benefits of various technological advancements
<b>3. Define</b> a wide range of practical problems as a computational problem
<b>4. Understand</b> a real-life problem and <b>be able</b> to design and develop systems using pseudocodes and flowcharts
<b>5. Introduce</b> the fundamental concepts of computer programming

**Levels in Bloom's Cognitive Domain:**

**C1: Remember   C2: Understand   C3: Apply   C4: Analyse   C5: Evaluate   C6: Create**

Question No.	Learning Outcomes (CO)	Level in Bloom's Cognitive Domain along with Allocation of Marks					
		C1	C2	C3	C4	C5	C6
1	4			5			
2	3		5				
3	3		10				
4	5			10			
5	5			10			
<b>Total Allocation of Marks</b>	<b>40</b>		15	25			

Question No.		Learning Outcome				
		CO1	CO2	CO3	CO4	CO5
1					5	
2				5		
3				10		
4						10
5						10
<b>Total Allocation of Marks</b>	<b>40</b>		15	5	20	

**Signature of the Examiner**

**Date:**

**Department of Computer Science and Engineering**  
**University of Liberal Arts Bangladesh**  
**Final Examination (Fall 2019)**  
**Course: Introduction to Computer Studies (CSE 101)**  
**Section: 9 --- Duration: 2 Hours**

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**PLEASE ANSWER ALL QUESTIONS.**

**Total 40 Marks**

**QUESTION 1**

**(5 Marks)**

Draw a flowchart to find the smallest among  $n$  different numbers entered by user.

**QUESTION 2**

**(5 Marks)**

Convert the following decimal value to its binary equivalent and show all the calculations while performing the conversion:

$$(BED)_{16} = (????)_8$$

**QUESTION 3**

**(10 Marks)**

Following is pseudocode snippet of a computer program:

```
percentage: number
if percentage > 59
then
    if percentage > 69
    then
        if percentage > 79
        then
            display "A"
        otherwise
            display "B"
    otherwise
        display "C"
otherwise
    display "F"
```

Predict the output for the following cases

- a) percentage = 64
- b) percentage = 72

**QUESTION 4**

**(10 Marks)**

Write a C program which takes an alphabet from the user and displays whether that alphabet is lowercase or uppercase.

### QUESTION 5

(10 Marks)

Write the C program for the following flowchart:

