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: CSE101 **Course Title: Introduction to Computer Studies** **Credit Hr: 3**
Time: 2 Hours **Total Marks: 40**
Name & Designation of the Examiner: Nafees Mansoor, PhD Assistant Professor

Learning Outcomes (LO):

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

Levels in Bloom's Cognitive Domain:
C1: Remember ***C2: Understand*** ***C3: Apply*** ***C4: Analyze*** ***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			
Total Allocation of Marks	**40**		15	25			

Question No.		Learning Outcome					
		CO1	CO2	CO3	CO4	CO5	
1					5		
2				5			
3				10			
4						10	
5						10	
Total Allocation of Marks	**40**			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: 10 --- Duration: 2 Hours

PLEASE ANSWER ALL QUESTIONS. **Total 40 Marks**

QUESTION 1

Draw a flowchart to find the largest among three different numbers entered by user.

(5 Marks)

QUESTION 2

Convert the following decimal value to its binary equivalent and show all the calculations while performing the conversion $(55)_{10} = (??)_2$ **(5 Marks)**

QUESTION 2

Following is an if/else section of a C program,

```
int year;
if(year%4 == 0){
        if(year%100 == 0){
                if (year%400 == 0)
                        printf("%d is a leap year.", year);
                else
                        printf("%d is not a leap year.", year);
        }
        else
                printf("%d is a leap year.", year );
}
else
        printf("%d is not a leap year.", year);
```

Predict the output for the following cases

a. year = 2020;
b. year = 2100;

(10 Marks)

QUESTION 3

Develop a C program which takes a number from the user and displays whether that number is positive or negative. **(10 Marks)**

QUESTION 4

Develop a C program which prints all the even values between 0 and 100. **(10 Marks)**

****END OF QUESTIONS****