**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):** | | | | | | |
| |  | | --- | | 1. **Describe** the concept and components of computing system along with its benefits | | 1. **Explain** features and benefits of various technological advancements | | 1. **Define** a wide range of practical problems as a computational problem | | 1. **Understand** a real-life problem and **be able** to design and develop systems using pseudocodes and flowcharts | | 1. **Introduce** 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 |  |  |  | | **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: 9 --- Duration: 2 Hours**

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

|  |  |
| --- | --- |
| **QUESTION 1**  Draw a flowchart to find the smallest among 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: | **(5 Marks)** |
| **QUESTION 3**  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   1. percentage = 64 2. percentage = 72 | **(10 Marks)** |
| **QUESTION 4**  Write a C program which takes an alphabet from the user and displays whether that alphabet is lowercase or uppercase. | **(10 Marks)** |

|  |  |
| --- | --- |
| **QUESTION 5**  Write the C program for the following flowchart: | **(10 Marks)** |