**NATIONAL UNIVERSITY OF MODERN LANGUAGES ISLAMABAD**

**DEPARTMENT OF SOFTWARE ENGINEERING**

**Mid Term Examination – Spring 2021 – BSSE I A (Morning)**

**SUBJECTIVE PART**

|  |  |  |  |
| --- | --- | --- | --- |
| **Roll No:** |  | **Total Marks:** | **20** |
| **System ID:** |  | **Allowed Time:** | **1 hour and 45 minutes** |
| **Name:** |  | **Campus:** | **Islamabad** |
| **Course:** | **Programming Fundamentals** | **Instructor:** | **Dr. Muzafar Khan** |

**Instructions: -**

1. It is NOT an open book paper. You are not allowed to consult any study material.
2. Matching/same answers of all students will be treated as incorrect and zero marks will be awarded to all students.
3. Save your file as PDF with the file name: Roll No – Name – BSSE 1A – Prog Fundamentals.
4. Attempt all questions on this paper and submit it on LMS and Turnitin.
5. Each question carries equal marks.
6. Unnecessary details will be considered as incorrect answer.

**Question 2 [CLO-1] – 5 Marks**

**Answer the following Questions.**

1: Is it possible to temporarily change the data type of a variable. If yes, what is the syntax to do it?

Answer:

2: Define compound assignment operator with the help of an example.

Answer:

3: What is the difference between prefix and postfix decrement operator?

Answer:

4: What is the concept of pseudocode?

Answer:

5: How do you define the concept of input validation?

Answer:

**Question 3 [CLO-2] – 5 Marks**

Write a program that displays the following menu:

G for Ghazali Block

I for Ibn e Rushd Block

J for Jinnah Block

R for Roomi Block

S for Salam Block

The program inputs code for the block and displays its name along with departments present in that block. For example, if user enters G, it displays Ghazali Block and its departments i.e. Software Engineering, Computer Science and Electrical Engineering. You may assume different departments for each block.

Answer:

**Question 4 [CLO-2] – 5 Marks**

Write a program that continuously inputs positive integer values from the user. The user enters a zero to show that he has no more values to enter. The program should display the largest number among the positive integers.

Answer:

**Question 5 [CLO-2] – 5 Marks**

Write a program to display the following format using while loop.

**Num** **Sum**

1 1

2 3

3 6

4 10

5 15

Answer: