



NATIONAL UNIVERSITY OF MODERN LANGUAGES
Department of Software Engineering
BS(SE)-1st A&B Morning – Final Term Examination June, 2021

Subject: Programming Fundamentals
Semester: Spring 2021

Total Marks: 2
Time Allowed: 1.5 hrs.

Students are advised to read and follow these instructions:

- i. It is NOT an open book paper. You are not allowed to consult any study material.
- ii. Matching/same answers will be treated as incorrect and zero marks will be awarded.
- iii. Save your file as PDF with the file name: Roll No – Name – BSSE 1A/B–Prog Fundamentals
- iv. After Completion submit it on LMS and Turnitin.
- v. Unnecessary details will be considered as incorrect answer.

Note: Attempt all questions. Understanding is a part of question. Marks of each question are shown in parentheses

Subjective Type

Question 2 [CLO-2]: How an argument by reference works when it passes to a function. Discuss its memory mechanism in detail with the help of diagram and example. **[5]**

Question 3 [CLO-3]. Create a structure that collects the information of two countries as their name, city name and population in structure variables then pass them to a function. Function display the record of the city that has more population. **[5]**

Question 4 [CLO-3]. Write a program that input a string with upper and lower case letters. Then input a uppercase letter from the user and search the character in the array. **[5]**

Question 5 [CLO-3]. Write a program that inputs the name, WBCs and blood group of 10 patients. The program checks the WBCs(white blood cells) of each patient. If WBCs are in the range of 3.5 to 10.5 then show a message “normal” otherwise show “take medicine” (Use pointers and functions to make the program efficient). **[5]**

GOOD LUCK

“The beautiful thing about learning is that no one can take it away from you”

B. B. King