

**Online Examination**  
**Topic: Function and String**  
**Section A2**

**Full Marks: 20**

**Time: 50 minutes**

**Problem 1:** Write a C program that will take two string inputs from a user. Then, it will check whether the two given strings are anagram of each other or not. An anagram of a string is another string that contains same characters, only the order of characters can be different. For example, “act” and “tac” are anagram of each other. You cannot use any string.h library function. **[Marks: 5]**

Sample input	Corresponding Output
act tac	YES
a bccccc	NO

**Problem 2:** Write a C program that will take two string inputs from a user. Then, it will find the number of common unique characters among them. You cannot use any string.h library function. **[Marks: 5]**

Sample input	Corresponding Output
aabcde abyb	2
bccecc a	0
c c	1

**Problem 3:** Write a C program that will take an integer  $n$  as input from a user. Then, it will take  $n$  strings as input from the user. Then output  $n$  strings in lexicographically sorted order. You can use any string.h library function. **[Marks: 10]**

Sample input	Corresponding Output
3 Zaaa Ddfff rttt	Ddfff rttt Zaaa