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| **National University of Computer and Emerging Sciences**  **Program:** BS(SE) **Total Marks:** 10 marks  **Section:** \_\_\_ **Time Allowed:** 10 minutes  **Date**: Nov 30, 2024, **Instructor:** Bilal Khalid Dar  **Student Name:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **Student Signature:**  **Registration No.** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

**Important Instructions for attempting Quiz**

***READ ALL QUESTIONS AND INSTRUCTIONS CAREFULLY***

* Carrying of Mobile phone, digital dairies, digital watch, or any electronic device is not allowed.
* Use only Black/Blue color pen. Sharing of anything is forbidden
* **Write your answer in provided space. No answer will be marked outside given space**
* **CUTTING IS NOT ALLOWED**. All questions are self-explanatory and require no further explanations during exam time. Read all questions
* **RETURN the Quiz paper after completion.**

**QUIZ 5 - A**

**Write output of the following function if**

int arr[] = {1, 4, 20, 3, 10, 5}; int n = 6; int target = 33;

bool funcation(int arr[], int n, int target) {

int currentSum = 0, start = 0;

for (int end = 0; end < n; end++) {

currentSum += arr[end];

while (currentSum > target && start <= end) {

currentSum -= arr[start++];

}

if (currentSum == target) {

cout << true;

return true;

}

}

cout << false;

cout << true;

}

**Output**

**1**

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**QUIZ 5 – B**

**Write output of the following function if**

int arr[] = {3, 3, 4, 2, 3, 3, 3}; int n = 7;

int funcation(int arr[], int n) {

int candidate = -1, count = 0;

// Find the candidate

for (int i = 0; i < n; i++) {

if (count == 0) {

candidate = arr[i];

count = 1;

} else if (arr[i] == candidate) {

count++;

} else {

count--;

}

}

count = 0;

for (int i = 0; i < n; i++) {

if (arr[i] == candidate) {

count++;

}

}

if (count > n / 2 )

{

cout << candidate;

return candidate;

}

return -1;

} **Output 3**