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Course code: SE121, Course title: Structured Programming

Section A - Class Test 3 (Set B)

Time: 30 mins **Full marks: 15**

1. Declare a character variable and a string of size 5. Assign suitable values for both variables. 2

2. Analyze the following code to write the output when n = 5.

```
#include<stdio.h>
int main(){
    int k, sum = 0, n;
    printf("Enter the value of n\n");
    scanf("%d", &n);
    for(k=1; k<=n; k++){
        sum += k;
        printf("Sum at step %d is %d\n", k, sum);
    }
    printf("Final sum is %d\n", sum);
```

3. Identify the error(s), if any, in the following C code snippets and correct them: 1+2

   a.
```
char gpa
scanf("%c", gpa);
printf("%c", gpa);
```

   b.
```
char name[5];
name = 'Dhaka';
printf("%c", name)
```

4. Suppose, a 2D array of 3*3 dimension is given like below- 4

   1 2 3
   4 5 6
   7 8 9

   Develop a C code to replace the even numbers of the 2D array with * and odd numbers with @. Your final output will be like-

   @ * @
   * @ *
   @ * @

5. Write a C program that takes user's country as input and prints the number of characters on it. 3

   Sample Input:
   Enter your country name: Bangladesh

   Sample Output:
   Length of your country name: 10