

ESC 101: Fundamentals of Computing				Minor Quiz 7		Date: 06 – 03 - 2019	
Name						C	
Roll No.		Dept.		Section			

**Instructions:**

1. Write final answers neatly with a blue/black pen in the given boxes.
2. Answers written outside the box will NOT be graded.

**Total 10 Marks**

**Q. 1:** Write the output of the following program in the appropriate box. **2+2 Marks**

```

1. #include<stdio.h>
2. void swap(char *str1, char *str2) {
3.     char *temp = str1;
4.     str1 = str2;
5.     str2 = temp;
6. }
7. int main() {
8.     char str1[] = "IIT";
9.     char str2[] = "KANPUR";
10.    swap(str1, str2);
11.    printf("%s %s", str1, str2);
12.    return 0;
13. }
```

**Output**

**IIT KANPUR**

*EXPLAIN YOUR ANSWER*

THE SWAP FUNCTION  
SWAPS THE LOCAL  
POINTERS NOT THE  
CONTENTS OF THE  
ARRAYS

**Q. 2:** Write the output of the following program in the appropriate box. **2+2 Marks**

```

1. #include<stdio.h>
2. #include<string.h>
3. int main(){
4.     char str1[20] = "FRIDAY", str2[20];
5.     for (int i=0; i<6; i++){ str2[i] = str1[6-i];}
6.     strcat(str1, str2);
7.     printf("%s", str1);
8.     return 0;
9. }
```

**Output**

**FRIDAY**

*EXPLAIN YOUR ANSWER*

THE STRING TERMINATION  
CHARACTER IS ASSIGNED  
TO THE START OF STR2

**Q. 3:** Write the output of the following program in the appropriate box. **2 Marks**

```

1. #include<stdio.h>
2. #include<string.h>
3. int main(){
4.     int count1, count2;
5.     char str1[] = "ACCBAB";
6.     char str2[] = "ABCACA";
7.     char *s1, *s2;
8.     s1=str1; s2=str2;
9.     count1 = count2 = 0;
10.    while(*++s1 != '\0' && *++s2 != '\0'){
11.        if(strncmp(s1, s2, 2) >= 0){
12.            count1 += strncmp(s1, s2, 2); s2++;
13.        }
14.        else{
15.            count2++; s1++;
16.        }
17.    }
18.    printf("%d %d", count1, count2);
19.    return 0;
20. }
```

**Output**

**4 0**