



Date: 30/8/2018

Attempt all questions assuming any missing data.

**Qusetion1**

**[20 Marks]**

1. Explain briefly the computer architecture. [4]
2. Write a C Program to Find the Frequency of Character in a String. The user decides the required character. [8]
3. Write C program to check if an entered integer is prime or not. [8]

**Qusetion2**

**[16 Marks]**

1. Write a C program to compute and print out the roots of the second order equation  $ax^2+bx+c=0$  including all types of roots. [8]
2. What are the outputs of the following programs: [8]

a.

```
#include<stdio.h>
Void main()
{
    int c, a=6, b = 18;
    c= ++a - b--;
    printf("c = %d, a = %d, b = %d", c, a, b);
    c += a-- - (++b);
    printf("c = %d, a = %d, b = %d", c, a, b);
}
```

b.

```
#include <stdio.h>
void main()
{
    printf("hello world\\"OK\\"\\btrials\\n");
    printf("\tinclude\\com\b\b\tOk\\n");
}
```

**Qusetion3**

**[16 Marks]**

1. Write a program to sum the even numbers from 10 to 5454. [8]
2. Write a program to read an array A, contain n numbers. Then print out the maximum number, minimum number and the sum of all numbers. [8]

With My Best Wishes  
Dr. Mohamed Moawad  
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