

يوم الامتحان : السبت

المستوي الاول

تاريخ الامتحان : ٢١ / ١ / ٢٠١٧ م

المادة : حاسب الي 2 (٤٠ مج)

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مدرس بقسم الرياضيات بكلية العلوم

الاسئلة و نموذج الإجابة

ورقة كاملة



Computer Science (2) (40 UR) for First Level Students

Answer the following questions:

Question 1. (10 marks)

Correct the error(s) in the following C++ segment code.

```
A- int g(void ){
    cout<< "Inside function g" << endl;
    int h(void){
        cout<< "Inside function g" << endl;
    }
}
```

```
B- int h(int n){
    if(n==0)
        return 0;
    else
        n;
}
```

Question 2. (14 marks)

Write the outputs of the following C++ programs.

```
A- #include<iostream.h>
void Fun(int & a, int & b){
    int temp = a;
    a = b;
    b = temp;
}
int main(){
    int c = 5;
    int d =2;
    Fun(c, d);
    cout << c << " " << d << endl;
    Fun(c, d);
    cout << c << " " << d << endl;
    return 0;
}
```

```
B- #include<iostream.h>
void Fun(int n1, int n2){
    cout << "Version1" <<endl;
    cout << n1 + n1 <<endl;
}
void Fun(int n1, double n2){
    cout << "Version2" <<endl;
    cout <<n1<<" " <<n2<<endl;
}
int main(){
    Fun(2, 3.5) ;
    Fun(4,6);
    return 0;
}
```

Question 3. (24 marks)

A- Using functions, write C++ program for finding the maximum of three integer numbers. (12 marks)

B- Using functions, write C++ program to calculate and return the sum of the integer numbers in one dimension array. (12 marks)

Model Answer

Computer Science (2) (40 UR) for First Level Students

Answer of Question 1. (16 marks)

```
A- void g(void ){
    cout<< "Inside function g" << endl;
}
void h(void){
    cout<< "Inside function g" << endl;
}
B- int h(int n){
    if(n==0)
        return 0;
    else
        return n;
}
```

Answer of Question 2.

```
A- 2 5
    5 2
```

```
B- Version2
    2 3.5
    Version1
    10
```

Answer of Question 3.

```
A-
#include <iostream.h>
int maximum(int a, int b, int c){
    int max = a;
    if(b > max)
        max = b;
    if(c > max)
        max = c;
    return max;
}

int main(){
    cout << maximum(5,4,3) << endl;
    return 0;
}
```

```
B- #include<iostream.h>
int sum(int a[], int );
int main(){
    int a[5] = {1,2,3,4,5};
    int output = sum(a,5);
    cout << output;
```

```
    return 0;
}
int sum(int a[], int n)
{
    int sum1 = 0;
    int i;
    for (i = 0; i < n; ++i)
        sum1 += a[i];
    return sum1;
}
```