

University of Technology-Electromechanical Engineering Dept.  
Final Exam-First Attempt - 2013-2014

Class :2nd  
Subject: P. in C++  
Examiner :Dr. NAZHAT. S & ASIFA . M



Time : 3 hours  
Date: 9 / 6 / 2014  
ملاحظة: الإجابة على خمسة أسئلة فقط

Name:

ID No.

Signature

Q1/

a. Write a program to convert a test Score into its equivalent letter grade [using switch statement].

Score  $\geq$  90    A  
Score  $\geq$  80    B  
Score  $\geq$  70    C  
Score  $\geq$  60    D  
Score  $\geq$  0    F

b. Find the o/p of the following program:

```
#include<iostream.h>
main()
{
const int SIZE=4;
float a[SIZE]={33.3,44.4,55.5,66.6};
for(int i=0 ; i>7 ; i++)
cout <<a[i];
}
```

Q2/

a. Write a program to enter two strings , and then find the following:

1. Insert the second string in the end of the first string.
  2. Compare between two strings.
  3. Copy second string to first string .
- b. Write a program to open and read file called "Ahmad".

Q3/

- a. Write and test the following Power Function that return X raised to the Power n , where n can be any integer number: double power (double X , int P).
- b. Write a program to open file called XYZ and write the characters B,O,O,K in this file.

Q4/

- a. Write a program tests a function called(sum) , that returns the sum and the average of the elements of an array a= {11,22,33,44}.
- b. Write a program to enter a sequence of five integer number and print the maximum number using function called MAX .

Q5/

- a. Write a program to print the square roots of the numbers from( Zero to 6)using function called sqrt ( ).
- b. Write a program to find the value of y.
- $$y = \begin{cases} \log x & x \geq 0 \\ x^3 + 3 & x < 0 \end{cases}$$
- c. Write a program that find maximum number in array a[5] by using pointer?

Q6/

- a. Write a program defines the variable n and the int variable pn, then print (n, &n, pn, \*pn).
- b. Write a program to print the even number in main diagonal for the following array:

$$x = \begin{bmatrix} 1 & 5 & 7 \\ 10 & 15 & 25 \\ 20 & 30 & 40 \end{bmatrix}$$

مع التوفيق بالنجاح

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