

Eng. Tech. College /Baghdad
Mechatronics Tech. Eng. Dept.
Academic Year 2017-2018
final Exam



Note: Answer five Questions only

Subject: Computer Systems and Programming
Class: First
Exam. Date: 29-5-2018
Allowed Time : : 3 Hours
20 Marks each Question

Q1.

(A) write C++ program to read a number, and print the month of the year corresponding on the input number. ✓

(B) the sum of odd numbers among 1000 numbers entered by the user. ✓

Q2.

(A) define and list the Generations of Computer and describe the difference between them?

(B) define and describe each one of the following in detail:
1) Essential components of computer , 2) windows, 3) control panel. ✓

Q3.

(A) Write C++ program using for-loop statement to represent the following series: 1, 2, 4, 8, 16, 32, 64

(B) Write a flowcharts for multiplication of 10 positive numbers. ✗

Q4.

(A)
write C++ program to find a smallest value among three number ✓

(B) use C++ program to write the following table using loop statement :

5000	500	50	5
4000	400	40	4
3000	300	30	3
2000	200	20	2
1000	100	10	1

Q5.

(A) Write the following equation as a C++ expression and state the order of evaluation:

$$f = \sqrt{\frac{\sin(x) + x^5}{\ln(x) + \frac{x}{4}}}$$

(B) write C++ program to Print Square Root of Numbers from 1 to 10.

Q6

Write C++ program, using loop statement to print the following pattern:

```
* * * * *
2 * * * * *
* * * * *
4 * * * * *
* * * * *
6 * * * * *
* * * * *
8 * * * * *
* * * * *
```

مع تمنياتنا لكم بالتوفيق والنجاح

رئيس القسم: أ.م. محمد صبري

مدرس المادة: م.م. ريفان زهير