University of Technology
Computer Science Department
Class: **first class /IS branch**
Time: **3 hours**
Date:16/6/2010

Subject: **Principle of Information Systems**

Examiner: **Msc. Ikhlas F. Nassir**

Final Exam / First Trail / 2009-2010

Q1 write a program to find the minimum and maximum number from 20 numbers then

A - Define programming languages. [3 marks]
B:-write the fourth generation for the program [7 mark
C:-Translate the program into machine language. [10 marks]

Q2 Answer only one question:

Q2 1-

A:-Define communication signals [3 marks]
B-Compare between serial and parallel transmission [8 marks]
C:-how many impulses and lines will you need if we can transfer the words "Information Systems" over parallel and serial ports . [9 marks]

Q2 2-

A:-Define communication channels [4 marks]
B:-list the modes for communication between devices [8 marks]
C:-Draw the diagrams for each mode [8 marks]

Q3- what is mean by **Spaghetti?** Where it is appear? Draw the structure representation for it if you have the first classes of a computer science departments branches. [15 marks]

Q4:- Draw the diagram for information decision, then test the status bellow on the figure [5 marks]

1) Student examination decision [2 marks]
2) Pupils arrive time to the student [2 marks]
3) The sunny day [2 marks]
4) New business planning [2 marks]
5) Program control [2 marks]

Good Luck