University of Technology
Computer Science Department

Subject: Principle of Information Systems
Examiner: Msc. Ikhlase F. Nassir

Class: first class /IS branch
Time: 3 hours
Date: 16/6/2010
Final Exam / First Trial / 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 marks]
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