Ministry of higher education and
scientific research
University of Technology
Computer Sciences department
Final Exam 2013-2014

Date: 29/5/2014
Time: 3 hours
Lecturer: Alaa A.H. Hashim

Subject: Data Structure
Class: 2nd
Branch: all the branchs

Note: answer **Four** Questions only

Q1: Given a circular queue of size (10) contain (10) elements, Convert the positive values to empty stack of size (10), and the negative values to empty Queue of size (10), final print the stack and the queue ? (using program segment).   (12.5 mark)

Q2: Using recursion, write function to find the position of particular value in one dimension array of size (10), then print this position in main function ?

(12.5 mark)

Q3: Write complete program to construct list of (10) nodes, then write function to convert the even values to array of one dimension, print the array in main function?   (12.5 mark)

Q4: Write complete program contain : function to construct binary tree and another function to compute the repetition of particular value? (12.5 mark)

Q5: Given Queue of size (5) with (5) elements, find the factorial of each value of this queue and put it in an empty stack of size (5)? (using program segment).   (12.5 mark)