

Date: **21**/**5**/2016 Time: 3 hours

Lecturer: Rasha I. Ahmed

Ministry of Higher Education and
Scientific Research
University of Technology
Computer Sciences Departement
Final Exam 2015-2016



Subject: Data Structures

Class: 2nd

Branch: MM, Network, Security

NOTE: Answer four questions only

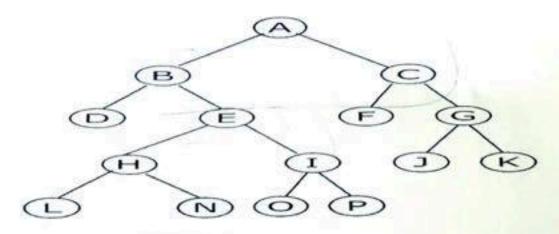
Q1: Write program to convert an array with size (7) into liked list. [12.5 M]

Q2: Write program to count the number of capital letters in an array using recursion. [12.5 M]

Q3:

A: Write Preorder function then display the following tree in Preorder arrangement.

[5 M]



B: represent the above tree using one dimension array.

[7.5 M]

Q4: Write program to split the content of the stack S into two stacks one for numbers larger than 50 and the other for numbers smaller or equal to 50. [12.5 M]

Q5:

A: What is sorting and list the sorting algorithms.

[6 M]

B: Write a function to count the even numbers in a queue with size (10). [6.5 M]

Good Juck

Silver s