Computer Science Division Department of Mathematics Faculty of Science Marks: 5 Marks



Level 4- Spring Semester Course: COMP 402

Date: February 28th, 2024 Deadline: March 8th, 2024

Assignment #1

Evolutionary tree Reconstruction

Prove that:

- 1. Every tree with n nodes has n-1 edges.
- 2. Every **simple tree** with n leaves has at most n-2 internal nodes.

Submission Rules:

- **1)** The submission of the assignment is by **the submission link ONLY:** Assignment 1
- **2)** All the files of your answers (pdf, word or images of handwritten ansewers) should be compressed into one compressed file (*.zip* or *.rar*) and the file **name MUST** be:

ProgramName followed by _ yourFullName. For Example:

The attached file name is: MathCS_ Ali Ahmad

- 3) Also write on the file your complete info (Name, Program, Level)
- 4) The deadline for receiving your answers is: Friday March 8th 2024 at 23:59

BEST WISHES