

Student ID:

Student Name:

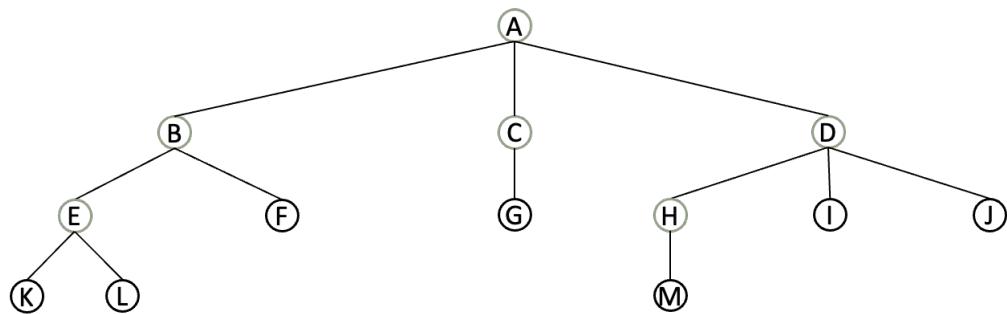
Q1. (60 pts, 5pts each) Complete the terminology.

Tree	Graph

A1:

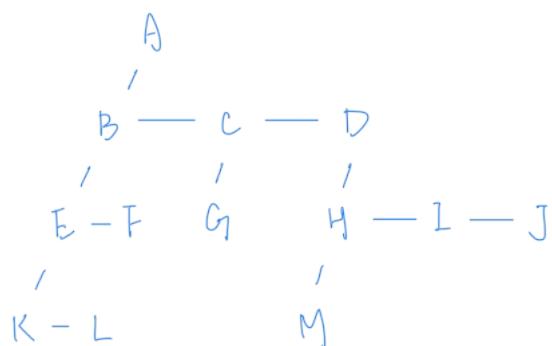
①	root	②	edge
③	degree	④	depth
⑤	subtree	⑥	parent
⑦	child	⑧	siblings
⑨	leaf	⑩	node
⑪	edge	⑫	edge with label

Q2. (40 pts) Convert the tree in the figure below into a degree-two (binary) tree, and describe the conversion process.

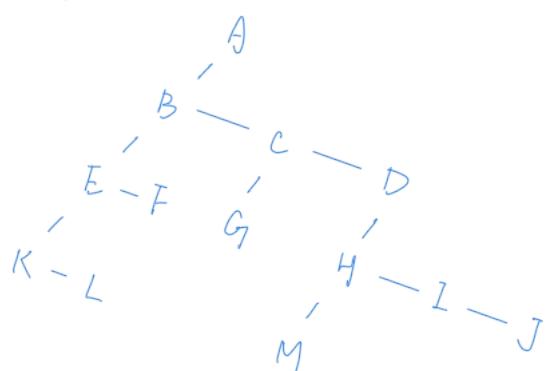


A2:

1. 左兒子，右兄弟



2. 轉 45°



3. Binary Tree

