

SECI1013: DISCRETE STRUCTURE QUIZ (4)

Name	:	Marks	
Student ID	:	Section :	
Date	:		

QUESTION 1

Find the incidence matrix of the graph in figure 1.

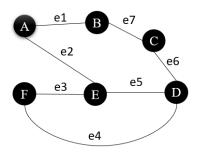


Figure 1

QUESTION 2

Consider the tree *T* shown in figure 2.

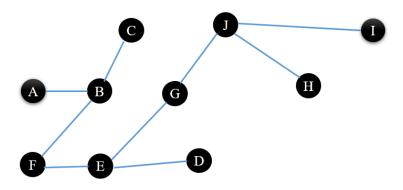


Figure 2

- a) Draw the tree T as a rooted tree with B as a root.
- b) What is the height of the resulting tree?
- c) Which vertices are internal?
- d) Which vertices are leaves?
- e) List the order in which the vertices of the rooted tree are processed using preorder traversal.
- f) Draw the subtree of the tree that is rooted at G