$\qquad$
The point values for each question is given within []. The total number of points for this assignment is 9 .
Consider the binary tree rooted at $f$ shown below:

[1] 1. What is the height of the tree?
2. What are the leaves of the tree.
3. What are the descendants of vertex $x$ ?
4. What are the ancestors of vertex $k$ ?
5. Provide the preorder traversal for the tree.
6. Provide the inorder traversal for the tree.
7. Provide the postorder traversal for the tree.
8. What is the maximum number of vertices in a binary tree of height $h$ ?
9. What is the minimum number of vertices in a binary tree of height $h$ ?

