	00114 - DISCRETE MATHEMATICS [S][SUMMER 19-20]
Q.	Questions.
1.	Build a <b>binary search tree</b> ( <b>BST</b> ) for the words <i>oenology</i> , <i>phrenology</i> , <i>campanology</i> , <i>odrinology</i> , <i>ichthyology</i> , <i>limnology</i> , <i>alchemy</i> and <i>astrology</i> using alphabetical order. Show details.
Figure for (2-4)	
2.	Determine the order in which an <i>inorder traversal</i> visits the vertices of the ordered rooted tree above. Show details.
3.	Determine the order in which a <i>preorder traversal</i> visits the vertices of the ordered rooted tree above. Show details.
4.	Determine the order in which a <i>postorder traversal</i> visits the vertices of the ordered rooted tree above. Show details.
5.	Represent the expression $(x + x * y) + (y / x)$ using a binary tree. What is the <i>prefix</i> and <i>postfix</i> form for this expression? Show details.