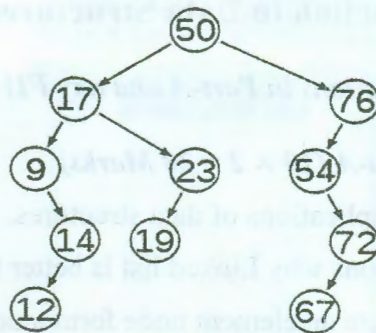
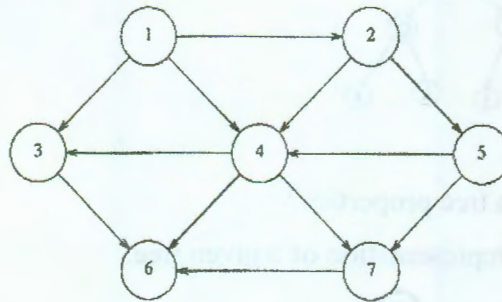


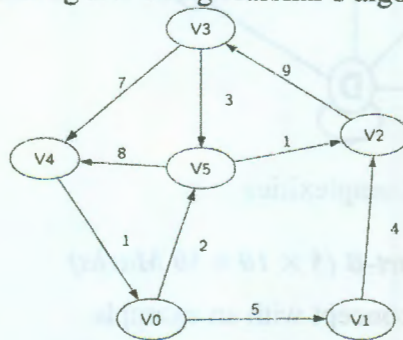
14. a) Write C functions to implement Queue operations using arrays. [5]
 b) Show the binary tree traversals in order, pre order, post order and level order on the given tree. [5]



15. a) Differentiate DFS and BFS techniques in graphs. [5]
 b) Perform the following operations on the given graph. [5]
 i) Find in degree and out degree of each vertices
 ii) Write the Adjacent matrix
 iii) Write the Adjacent List.



16. a) Write and Explain the Asymptotic Notations. [6]
 b) Find minimum cost spanning tree using Kurskal's algorithm for the given graph. [4]



17. Answer any **two** of the following:
 a) What are Self-referential Structures? [5]
 b) Explain Circular Queue. [5]
 c) Explain Spanning trees. [5]

