Course	:	B. Tech.
Semester/ Section	:	**III Semester /Section-B**
Subject & Subject Code	:	**Data Structures and Algorithms (DSA)** **Subject Code: 3IT4-05**

Course Outcomes	
CO3	**To use advanced data structures such as Balanced Tree, B Tree and AVL Tree.**
CO4	**To solve problems using fundamental graph algorithms.**

Q. No.	CO	Questions
1.	CO3	Draw an expression tree of the following : **4 + ((7 + 9) * 2)**
2.	CO3	Write an algorithm of post order traversal in Binary tree.
3.	CO3	Explain the sequential representation of Binary tree in memory.
4.	CO3	Build an AVL tree with the following values showing the rotations : **15, 20, 24, 10, 13, 7, 30, 36, 25**
5.	CO3	Differentiate between B Tree and B+ tree.
1.	CO4	Define graph. Explain its linked representation.
2.	CO4	What is spanning tree? Explain the methods of drawing minimum cost spanning tree.
3.	CO4	What is Depth First Traversal in Graph? Explain with an example.
4.	CO4	Outline the applications of Graph.
5.	CO4	Discuss common hashing functions.