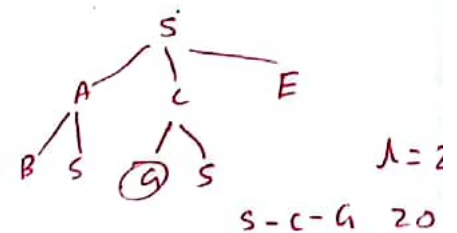
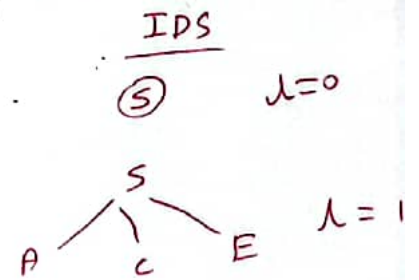
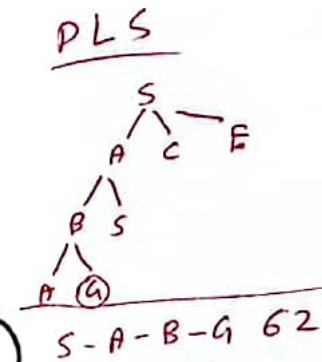
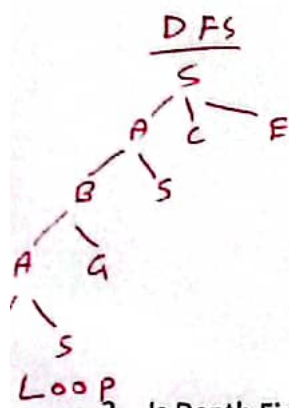
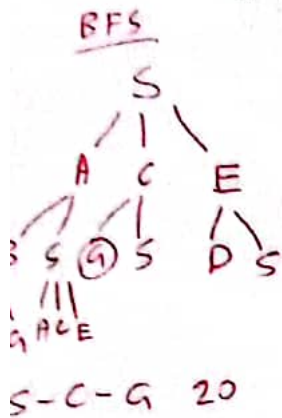
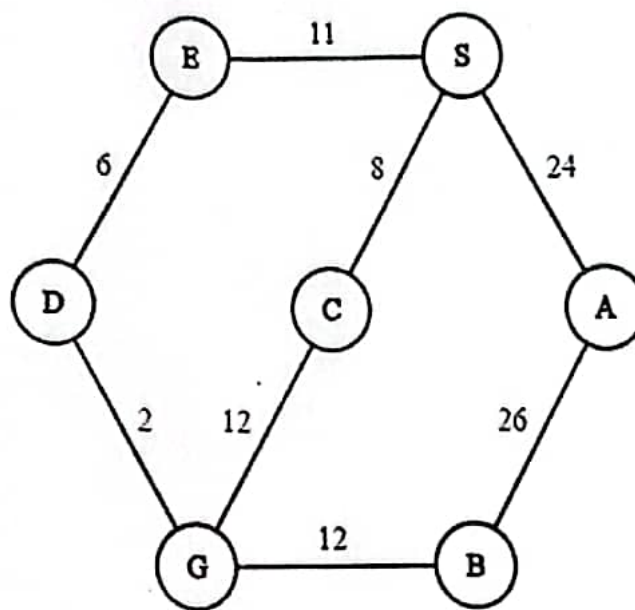


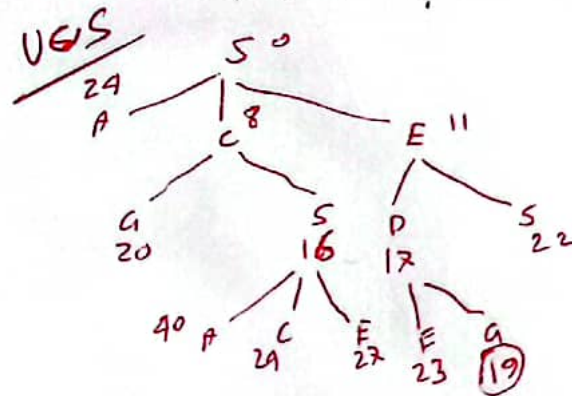


1. Consider the state-space graph in the following figure. Considering S as the start node and G as the goal node, find out the solution paths and costs returned by the following tree-search algorithms. In case of ties, use alphabetical order to choose nodes. [2+2+2+4+6]

a. BFS    b. DFS    c. DLS(depth limit = 3)    d. IDS    e. UCS



2. Is Depth First Search complete? Is it optimal? Explain your answer. [4]



S-F-D-G  
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