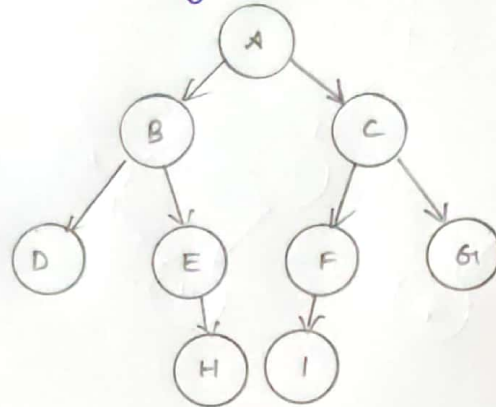


2) Write an algorithm for BFS. Using this algorithm find the BFS of the graph below starting from the vertex A.



ans. Algorithm

bfs (integer v)

begin

visited[v] = true

initializequeue(q)

addqueue(q, v)

while not emptyqueue(q) do

begin

deletequeue(q, v)

for all vertices w adjacent to v do

if not visited[w] then

begin

addqueue(q, w)

visited[w] = true

end

end

end

BFS of Given Graph

A B C D E F G H I