1/2, 2AQ:- Discuss Backtracking algorithm.
a) line node b) E-node c) Answer node d) Answer node e) Dednode f) Answer. 20. 2BQ:- Discuss alg of Hamiltonian Cycle and Graph Coloring. Draw state space tree for n=4 & m=3 graph wolding problem. 2 AD: what is Sum-of-subsets problem 9 Solve Sum-of-subsets using Backtracking. Let n=6, m=30 of $\omega[1:6]=[5,10,12,13,15,18]$ (Draw state space tree of solution using fixed - tuple sized format). 2BO: - Discuss 4- Queens problem with state space tree of solution tree, write

alg for N- owen problem

10 :- set-I 1. IAD- what is OBST? write alg of time complainty for OBST. construct OBST with Let n=4; (a1, a2, a3, a4) = (d0, if, int, while); P[1:4]= (3,3,1); 9[0:4]=(2,3,1/1). the P's and V's have been multiplied by 16. 1. 1BO:- Describe Travelling Sales parson problem. construct optimal tour for (TSP) IAO: - concepts of retiability design problem. Design three-Stage System with down types D1, D2 & D3. Lost are \$ 30, \$ 15 &\$ 20. Reliability is 0.9, 0.8 \$ 0.5. The total Cost of system must not be more than c = \$ 105. 1B(i)Q:- #0 of 1 Knapsack, n=4, m=16, Pi(P, Pz, Pz, Pz, Pz) = (10, 6, 5, 1), Wi=(W1, W2, W3, W4)=(9, 6, 7, 3) Using Dynamic Programming. 29: - Write Alg [Floyd = Warshall alg) for all-Pag. Shortest Path Broblem.