(ii) charactarstic Root method: Example: an-ban-1 +8an-2 =0 STEP-1: write chac Egun. ao=4, a,=10. STEP-2: Find roots Solve: Put an = 27. and let goots be 2n-62n-1+82n-2=0. 21,92, --, A/c. Divide B.3 by 1n-2 STEP-3:(a) & all roots are diff. 12-62+8=0. then G.s is: 82-48-28+8=0 an=c,2,"+c222+---8(8-4)-2(8-4)=0 16) If two of its roots are same (8-4)(8-2)=0then 5.5 is: 8-4=0; 8-2=0 an=(C,+C,n)2,"+ C322+ 8=4; 8=2. --- + C/c2/c. 2=2,4. an=C,2"+C24" >0 5= 4+ 262 +3 Eq 3 - 3. put n=0. in 0: 12 C2 put in @ ao=c,20+c24° a0=4+ 62 4= 4+1 4 = c,+C2 > 2 1=3 put n=1 in 1. put <19 <2 in 10: a,=c,2'+c24' an= 3.2"+1.4" 10 = 26, +462 Divide by 2 on BS