Travelling Sales man troblem

— circuit method (Phase

— circuit method route

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— circu A 2 00 B 13 Step 1: Row reduction 0 0 00  $\infty$ 00 7 Column reduction (Row Scanning) No of Equares = 5 = No of rows A-E, B-c, e-D, D-B, E+A

so travelling sales man problem condition is not satisfied. Total cost of the optimal solution from assignment problem = 1+1+3+4+4 = 13 . There are two circuits in solution. (2) B -> c -> P We need to forma single circuit to From fir (1) cineuit, there are two post possibilitées i.e. A +>E and E->A We need to insent this into second. circuit and cheek out the possibilities. EHA AC0 5 There are sin alternative possibilities Extra cost to form le are there 4+0=4 (cost from DBA and EC = last 0+3=3 As signment (11) BE and AC = = 4+7=11 table) (III) CA and ED (IV) CE and AD = 4+7=11 (v) DA and EB = 9+2=11(VI) DE and AB = 1+ 1=2 -> least cost Optimal cost solz; B -> c -> D -> E-> A