

Solu Let
$$G = (V_1 E)$$
, $V = \{a, b, c, d, e, z\}$
Step I taking $P_1 = \{a\}_1$, $T_1 = \{b\}_1$, C_1 , C_2 , C_3 , C_4 , C_4 , C_5 , C_6 , C_7 , C_7 , C_8

Step I taking $P_2 = \{a,b\}$, $T_2 = \{c,d,e,z\}$ $J(c) = \min \left(\text{old } J(c), J(b) + \omega(b,c)\right)$ $= \min \left(\mu, 1+2\right) = 3$ $J(d) = \min \left[\text{old } J(d), J(b) + \omega(b,d)\right]$ $= \min \left[\alpha, 1+7\right] = 8$ $J(e) = \min \left[\text{old } J(e), J(b) + \omega(b,e)\right]$ $= \min \left[\alpha, 1+5\right] = 6$ $J(z) = \min \left[\text{old } J(z), J(b) + \omega(b,z)\right]$ $= \min \left[\alpha, 1+\alpha\right] = \infty$

Thus CET2 has the min Miden 3.

Step II taking P3 = { a, b, c}, T3 = { d, e, z} l(d) = min [old l(d), ·l(c)+w(c,d)] = min [8,3+00]=8 l(e)= min [old l(e), l(e)+w(ec)] = min [6, 3+1]=4 $l(z) = \min \left[\text{old } l(z), l(c) + \omega(c, z) \right]$ = min[00, 3+00] = 00 1: e e T3 has the min incluse 4 Step IV - Taking P4 = { a,b,c,e}, T4 = { d,z} l(d) = min [old l(d), l(e) +w(d,e)] = mm [8,4+3] = 7 1(2) = min [old l(z), l(e)+w(e,z)] = min [00, 4+6] = 10 Thus dETy has min index 7 step I - Taking Ps = { a, b, c, e, d }, Ts = { z} l(z)=min [old1(z), l(d) +w(d,z)] $=\min[0,7+43]=10$

2 ea α 00 00 co Co 00 Jab1 00 8 a +6+c>e-Z 1+2+1+6=10