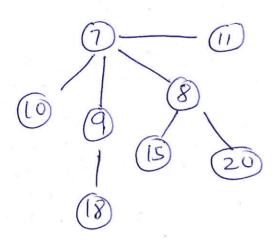
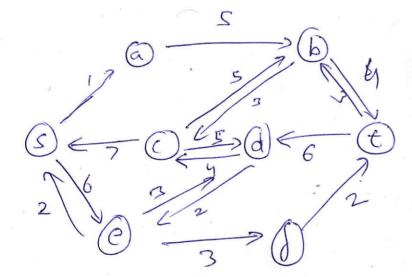
1)



(i)

Residual graph.

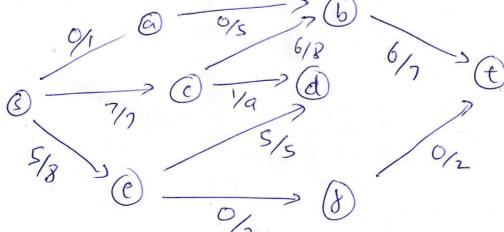


(ii)

Augmenting fath. S-e-d-c-b-c

Capacity = 3.

(iii)



3

(i) Related (d)

(ii) Relabel (c)

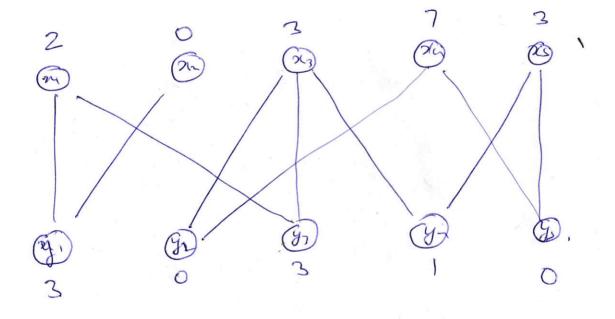
(iii) Push (d, t) [8/10]

(iv) Push (c, b) [2/5]

(a) 12/16 (b) 12/16 (c) 2/5 (d) 8/10

$$y$$
) $d=$ $\begin{cases} 3+0-0, 3+0-0, 1+0-0, 1+0-0, \\ 4+0-2, 4+0-0, 4+0-0, 4+0-1 \end{cases}$

labelling New



subject dus 5 0

FAIN SUMAS 19CS 300 48 a graph with 4 layers. 5) We constouet units a source writer (s) · 1st layer · 2nd layer with p nodes. (A, --- Ap) . 3rd layer with of nodes. (B, --- Bq) · 4th layer with a destination node (t) these in the following may. · Connect 5 with Ai by or edge Ule connect with man flow as sun of ith row. · Connect Bi with t by an edge with more for as sindy to it column. Concert all paiss of Ai, By with + D.

(infinity)

Whe find the man for in this goalph.

as minimum out is zermed all rous =

as minimum out is zermed all rous =

E sum of all columns. we will find a

E sum of all columns. we will find a suitable flow. Value in the edge connecting Ai with By value in the cell. i, j. Jepresens

Since edges on integer flow in the

Graph will always be integer.

Galong any edge

(augmenting both is always integral).