Question Nou1.

Ts Hum (A) = 0 1

Ts Num (B) = 1

Ts Num (c) > 1

Ts Num(e) = 2

Ts Num (h) = 1

Ts Num (g)= 1

To Num (4) = 1

Ts Num (d) = 0

enque d

ld

In while loop

id :

numld) > 1

Tsnum (a) = 0 Tsnum (f) = 0

[a] F]

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(10)

Ver this algorithm is different from the one discussed earlier because in that algorithm we had used stack while this has quever and cycles.

Now TSENOM (A) = 0

then dequeve it

num (A) =2

for TS Num (f) = 0

num(g) = 3

num(b)= 4 num(h)=5

num (c) = 6

num (e) = \$7

Q#2 (b) First by looking at the and vertices with Smallert edge weight. This is the minimum spanning Tree. Q#3 a)
Sonia Jen Jerry Sonia's friend friends of friends c) Sonia — 8 friends

56 Ifriends of friends

