Q1:
  'c', 'c-c', 'c-c-c', 'c-c-c-c' are frequent

Q2:
(1):
Step1:
Rank(u0)=1/3
Rank(u1)=2/4
Rank(u2)=1/4
Rank(u3)=2/2
Rank(u4)=2/2
Rank(u5)=1/2
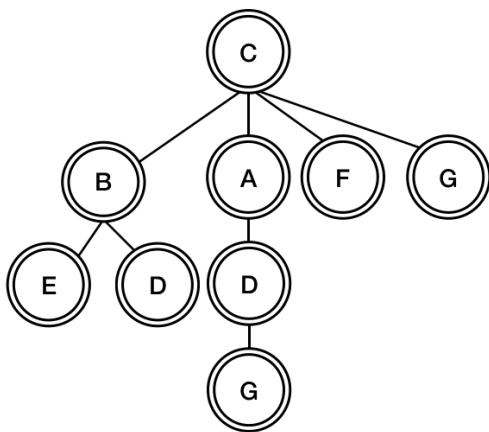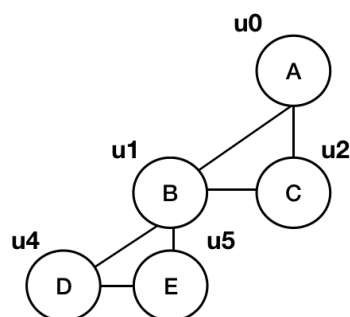Rank(u6)=2/1
Rank(u7)=3/1
Rank(u8)=3/1
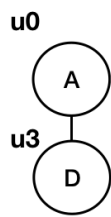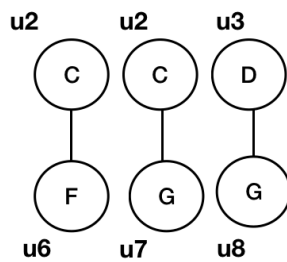Hence, u2 is selected as the root node.

Step2:

(2):
core-set:

forest-set:

u0

(A)

u3

(D)

leaf-set:

u2   u2   u3

(C) (C) (D)

(F) (G) (G)

u6   u7   u8

Q3:

Choose v3 as activated seed can generate largest influence spreads.
$w(v3)=1$, $w(v2)=0.4$, $w(v7)=0.3$, $w(v9)=0.5$, $w(v0)=0.12$, $w(v6)=0.08$
$w(v1)=0.06$, $w(v4)=0.3$, $w(v8)=0.05$, $w(v5)=0.024$

so the maximum sum is 2.824