ASS 3

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Q1：

1)

(C)—(C)   (C)   (C)   (C)—(C)
(C) (C)   (C)   (C)—(C)   (C)
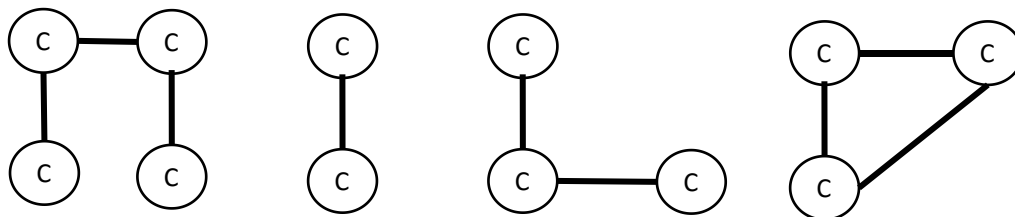
Q2:

1) 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, u0 is selected as the root node.NEC tree:

u'2 C
u'0 A u'1 B u'6 F G u'7
u'3 D u'4 D u'5 E
u'8 G

2)

u0 A
u1 B C u2
u4 D E u5

Core

u0 A
u3 D

Forest

u2 C C u2 D u3
u6 F G u7 G u8

Leaf
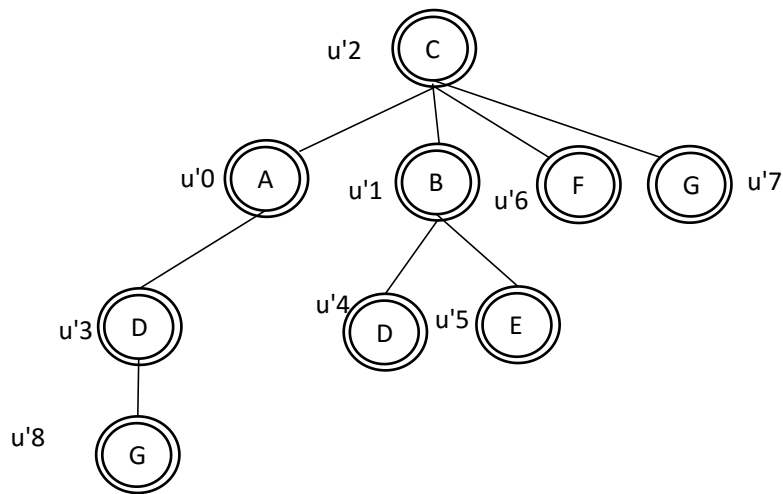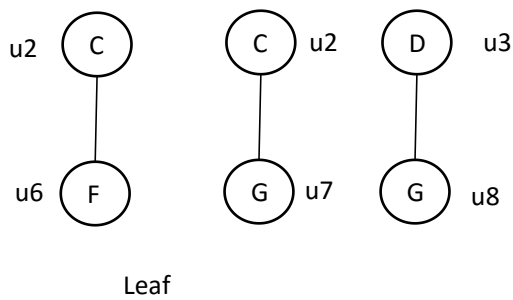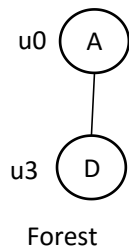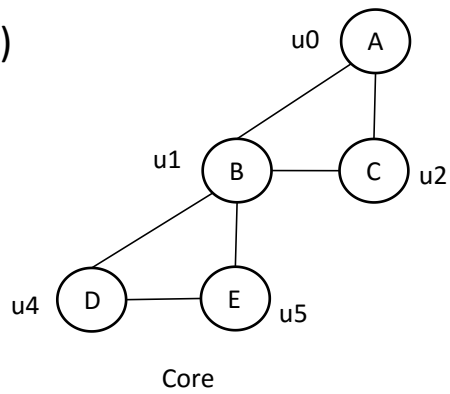
Q3:

	$\sum_{i=0}^{9} W(v_i)$
W(v0)	1.2962

W(v1)	1.5979
W(v2)	1.7810
W(v3)	2.834
W(v4)	1.7790
W(v5)	1.3912
W(v6)	1.6042
W(v7)	1.6948
W(v8)	1.3597
W(v9)	1.8984

From the table above we can see that the maximize is 2.834, so we should choose v3 as the activated seed.