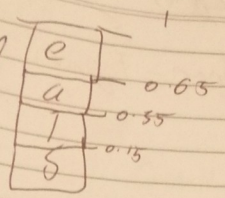
Question 1



0.15

S

0

0.15

E 0.0975

a 0.0525

I 0.0225

S

0

0.15

0.0975

0.15

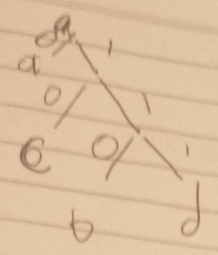
E

A 0.008

I 0.105375

S 0.0975

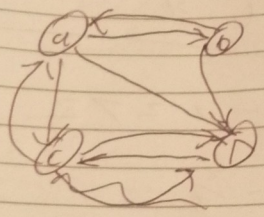
0.0525

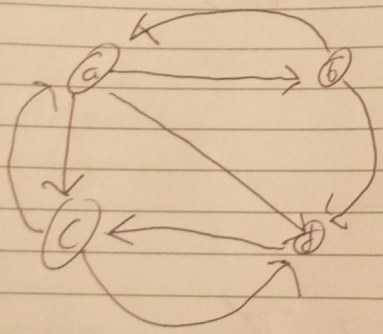


a = 00
ab =
c = 10
b = 110
d = 111

EAT > 0.105375
EAT < 0.108

$3 + \frac{1 \times 0.8}{0.8} = 4$





1/6

4 x 3 x 2 x 1

12 ~~24~~

Average

II a

III

IV

V

a 3 OUT 2 IN
b 2 OUT 1 IN
c 2 OUT 2 IN
d ~~3 IN 1 OUT~~ 1 OUT 3 IN

Average OUT Degree : 2

II a

III D → C → A → B

IV

Network Density

~~b~~

$\frac{4 \times 3}{2} = 6$

$\frac{7}{12} = 0.583$

V 1

I Tom, Sue 0 $\frac{1\times0 + 2\times0}{2\times0}$

~~$2\times0 + 2\times0$~~

Tom, Ben

$(1\times-\frac{1}{3}) + (\frac{1}{3}) + (-\frac{2}{3})$

$\frac{2}{3}$

$\sqrt{\frac{4}{9}} \times \sqrt{\frac{5}{9}} = 0.272$

$2\times-\frac{1}{3} + \frac{1}{3} - \frac{2}{3}$

$\frac{1}{2.44} = 0.408$

Tom Lynn

$\frac{(2\times1) + 2}{\sqrt{\frac{4}{9}} \times \sqrt{5}}$

$\frac{4}{5} = 0.8$

Answers clearly written from the workings above

Question 1

$0.105375 < EAT < 0.108$

Question 2

A = 0
C = 10
B = 110
D = 111

Question 3
(I)
Tom, Sue Correlation = 0
Tom, Ben Correlation = 0.408
Tom, Lynn Correlation = 0.8
(II)
Tom Would likely give the book a 4

Question 4
I Average out = 2
II a
III D > C > A > B
IV Network Density = 58.33%
V 1

“I am aware of what plagiarism is and include this here to confirm that this work is my own”