

Hodes that have adopted behaviour A=S
S= {e, f, c, i, k}

Heigh bours of nodes who have adopted behaviour

Pg = 13 Pi = 43.

Theregore, behaviour A will not spread burther. 3 = Nodes adopted behaviour A = {e, f, c, i, k}

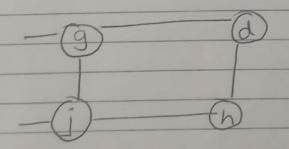
behaviour A which was early adopted by e and f
swas calculated in previous exam problem.

8 = {e, f, c, i, k}

we have to find cluster density greater than

1-q=1/2 in the part of the graph outside S.

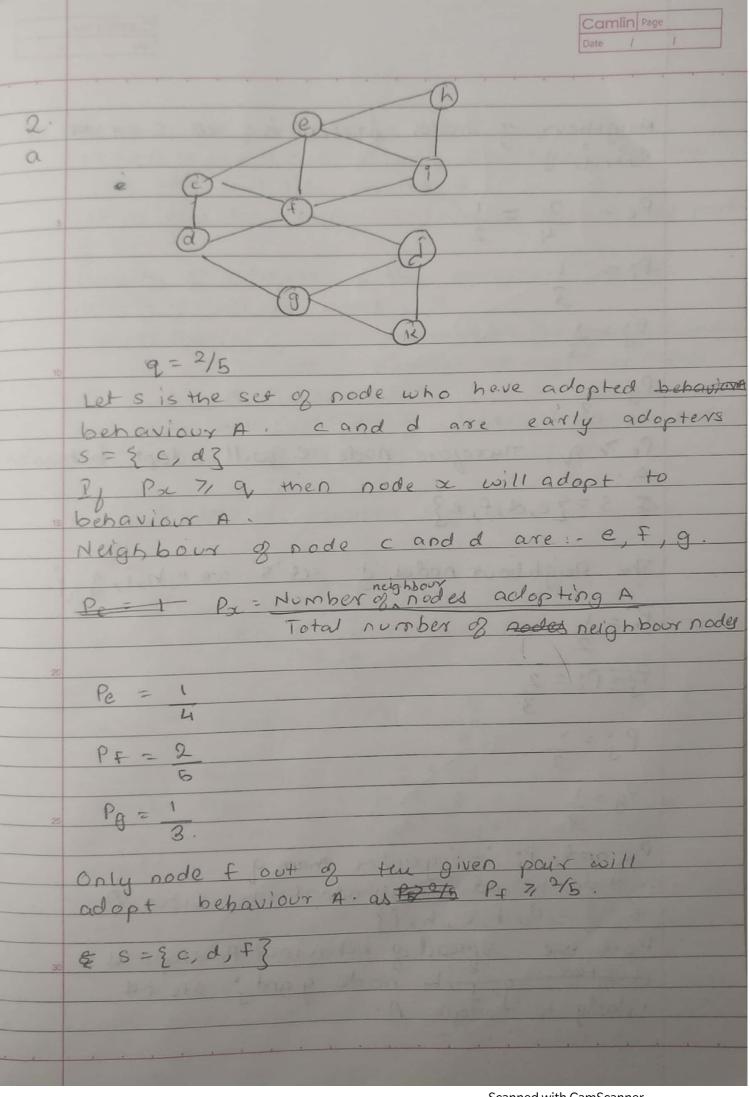
The part of graph outside S is below.



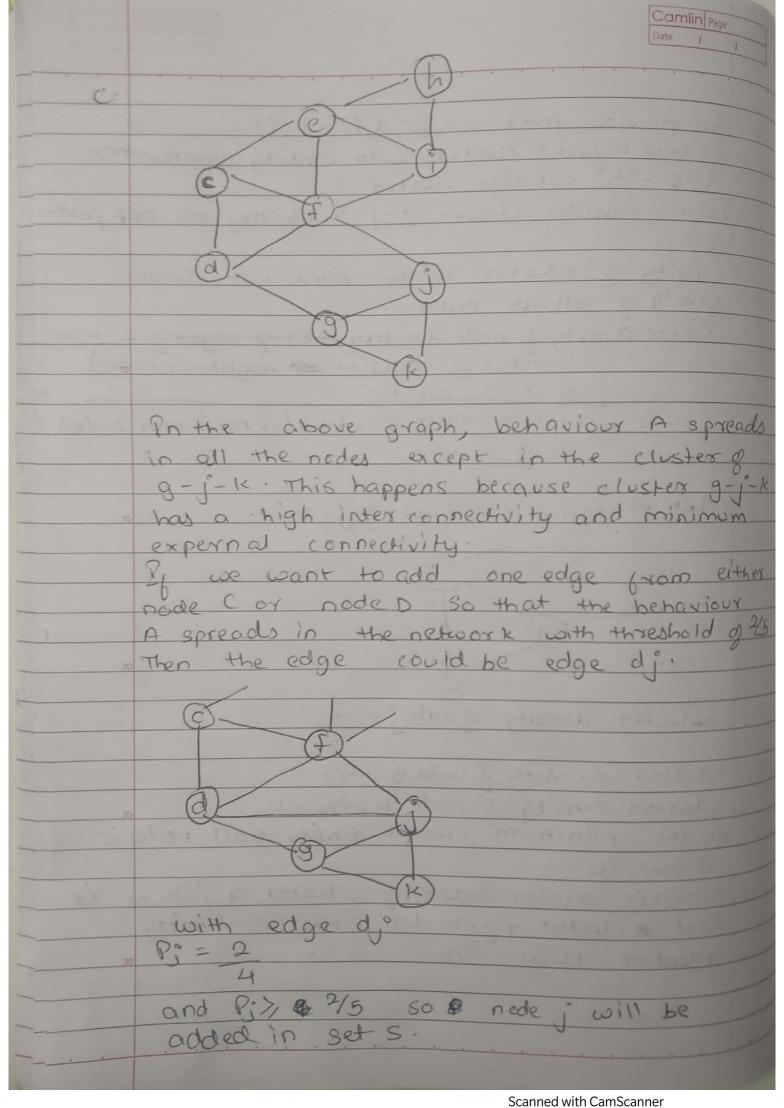
Let this graph be one cluster and find out its eluster density.

cluster density of node x = edges of genodes in cluster total no. of edges of node.

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| - | | Clister density a made a = 2 | ista gale |
| | | Cluster density of node $g = \frac{2}{3}$ | |
| | 100010 | duster density g node j = 2 | O COLUMN TO |
| | 5 | 3 | 377 4 |
| - | | cluster density of node d = 2 = 1 | ar a market |
| | 1 494 | cluster density of node n=2=1 | roward |
| 10 | | 2 13433 13 | Self El |
| | 10. | | |
| | | since every node in cluster has c | losterio devit |
| | - 11 | greater man 13. | 4558 111111 |
| | I have | Therefore cluster density of entire clus which is greater than 1/2. | ter is 2/3 |
| - | | | |
| - | 15 | : Cluster (g,d,n,j) have a cluste | |
| - | - 0 | of greater than 1/2 and are not p | ast of 8. |
| - | | 12 man doorp let 11 man 100 mm 1 | V 7 (1) (1) |
| - | | - and the second | Yes all lives |
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| | Meighbour of needes present is set some one |
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| | Pe = 2 = 1 4 2 |
| | P. 4 2 |
| | P: = 1 |
| | P |
| 10 | P; = 1 |
| | Po = 1 1 and |
| 1000 | 3. |
| | Pezia Tura |
| | Pe 7, q, Thiselore node e will adopt behavior |
| 15 | \$ 5= \{c,d,f,e\} |
| | |
| | The neighbour nodes of solis' |
| | The neighbour nodes of set's are !- h,i, g,j |
| - share ye | Ph = 1 |
| 20 | |
| | P=P=2 |
| | A A |
| | P3=3 |
| | Pa = 1 |
| 25 | Pg = 1 3 |
| | Prand Pi is greater than q. 1. Node hand i will adopt behaviour A. S=\(\xi_{\circ} \circ_{\circ} \dig \xi_{\circ} \) |
| | !. Node hand i will adopt !. |
| | |
| 20 | Here the spread of behaviour A stops as |
| 30 | there the spread of behaviour A stops as cluster gift mode gand; are not likely to adopt A: |
| | likely to adopt A. |
| | |
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| | |
| | Similarly Now; |
| | Pg = 2/3 |
| 5 | and Pg becomes greaters than 2/5. hence |
| | even node g will be added in set S. |
| | Pr=9 2 = 1 |
| | PK = 2 = 1 |
| 10 | So node k will also be added to sets. |
| | The whole network will adopt behavioust |
| | At threshold of 2/5. |
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