1	Derbrat Anuragi
	17078
	Compulsary question
	Compulsary question
,	Fabe Live a la l
O -	A Japan Japa
Q3.	Average size of small component:
	=) Cize of small component to which is note;
	belongs is simply sum of pires of all the act
	of node reached by pllowing on edge of
	e) Size of small component to which a nocle; belongs is simply sum of pires of all the set of node reached by pllowing on edge of node i plus I (node: isself.
	A
	net a are tit to shee and pize of
	set a node i has deak and sizes of these set a are the the shen ary size of component to which node i belong is 1+k <t></t>
	· ·
	$\langle n \rangle = 1 + \langle k \rangle_{someth} * \langle + \rangle$
	< k > small is any deg of node in small Component
	Component
	(6) is any size of the set of nodes neached by following on edge.
	py privaring an roge
71-31	O COMPA = I - walding (N)
	-> Prob that node belongs to small component
	-> Prob that node belongs to small component given that it has deg k; is at
- <u>3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 </u>	2 1 1 1 0 11 1 ment) - Pl small = deen x Pldes k
	P (deg k Omall component) = P (small deg n) x P(deg k
-	p (small component)

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P(deg k) = Pn

=) P(omall component) = 1-S= g(u)

Pldeg klomall component) = uk. pu go(4)

2K) small = Average of Pl degk | small comps.

2 Konall = | Ekpkyh

go(4) N=0

(13 mall = lego (a) -(D)

Arg. no of neighbour reached along on edge

<+>= 1 + < h> neighbor < +>

(t) = 1 1- (K) neighborn:

-> (k) neighbour = $\frac{1}{(u)} \sum_{k=0}^{\infty} h(k+1) p_{k+1} u^k$

4 go'(u) k=0 K pu uk





