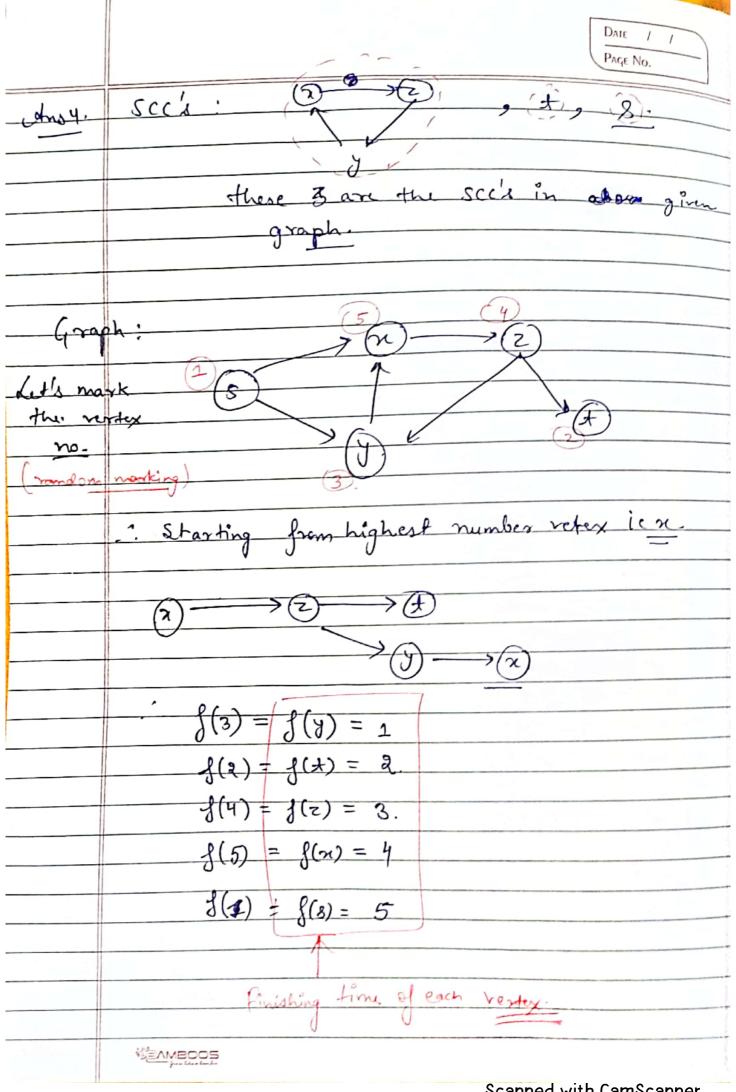
	1-10.
Ans 3.	Graph: g.
	M, and V are edge disjoint paths.
_	$E(P_1) \cap E(P_2) = \phi.$
	Relation R:= ~ (extello assarato).
2 2	is Reflerire unu. Tone.
and	u~x x~v =) u~v it is also tromsitive
	Hence vis an equivalence rel.
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Ans? Subset sum (i, 7') = Subset Sum (i-1, T') if x(i)>7 max (Subset sum (i-1, T') Sendo code: - ag The following recurren relationship takes X[i]
if it greater than T. The algo considers both cases when X(i) was considered and not considered. The corresponding weight is added. Then fing ensures that max. values is To there's no of result is - so the individual value since I't is simple brute force which considers every subset and consider the max. value. Thus the algo is correct.

	Date / / Page No.
Ans 2.	To prove: Forali 1; = {x d(3, x)=i}
Proof!	
	3: Source vertex.
c =00 -0	Inductive (and n: 7) I if y was added to lit, then d(s,y) = lines Declar Edition of the order
	if y was added to lit, then d(2,y) = Ding
- Conserve	DODGO COO COO COO COO COO COO COO COO COO C
	abore
	If we prove cond to then we can
	If we prove cond (then we come conclude that $\lim_{t\to 1} \frac{1}{t} = \begin{cases} y \mid d(s,y) = j+2 \end{cases}$.
Troof @	to condition: - if y is added to Litt
	it was added by tronversing on edge (x, y)
	where xel; so that there's path from 8 to y.
	So taking shortest path from & ton followed
	J (84.9)
	$d(s,y) \leq d(s,x) + 1$.
	since of the by industion by soft wis.
4	since x & Li, by induction hypothusis. d(s,n)=i.
	$\therefore d(x,y) \leq i+2.$
Howeve	or sing y & L: for any i < 1, by induction
	r sing y & Li for any j \leq 1, by induction hypothesis d(s,y) >i
	(A(2/3) = i+)
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