Nos.		N A
01		AW
Ans	1) Asymptotic Definition	
	function is trading to one aris	
	2) Asymptotic Definer that a function is tending to one axis you (an Say like it is a limit trample or Asymptotic Function Could	
Marca	2) Asymptotic notation in para Structures one 15 1 to 0	
	View Ci	
	time Complexities or your	
	21071	
	complexity i.e time	
	execute a particular algorithm or	
	Code.	
	4) The denotions or Best worst	
	O(BIGO) UT WOXF	
	DU+ C	
	O (theta) - Average (ase.	
,		

	3	
Question Nos.		Marks Awarded
	5) But In data structure we	ja.
	Always Consider that What is	
	the wort Case or An Algorithe	^
	or Code that define that how	
	Much Computational power Computer	
	Consumer to Execute.	
	int Count =0	
	for (int;=0; i < n; i++) }	
	Lount ++;	
	3	
	In this Code the loop has	
	time complexity of o(n) and the count variable updation	
	the Count variable updation	
	has 0(1)	
	Time Complexity = O(n)	
	(7)	
	$0(1) > 0(\log n) \ge 0(3n) \ge 0(2^n) < 0$ $0(n^2) < 0(n^3) = 20(2^n) < 0$	(n!)
A	and or ogrowth 2	(n^n)
, , ,	This is an increasing order func)	
	70(1)	
	20(5)	
	The state of the s	
	70(10gm)	
	$\rightarrow 0(2)$	
		
		A TOTAL CONTRACTOR OF THE

	5	
Question Nos.		Marks Awarded
	4) Current linked lift :-> a	
	900	
	(3) -A -3(2) -3(2) -(1) -> NULL	
	head	
	5) Two pointer Approach to Remove	
	puplicalec.	
	Demone Duplinate	
ligNod		
	Struct Node #t1 = head; Struct Node #t2 = head 3 -> next;	
	while (t1 = NULL 48 t2 += NULL)	
	THE (Evalue of the = = value of the)	-
	# ({ vawe of 12 } while (t2!= t1) }	
	t#2= +22-> next; Ree(t2));
	$\frac{3+1}{2} = \pm 2;$	
	$t1 = t1 \rightarrow next;$	
	$t2 = t2 \rightarrow next;$	
	3	
	Indic ' Hites Two Dointex t1 and t2	
	checking it their valves one	
	logic: Using Two pointer t1 and t2 Thecking if their values one Same It not then tomove t1	
	and to next node It	
	to var == to val then traverse to	
	using while loop till the 2t1!=	+2
	and I thee (t2) Wode Evory time	

Nos Mari		6	6
then liking the current to to to to so that the Duplicals lemove and again moving to to next the starting again checking. 6) The linked list would be (3) 4) - (2) + (1) -> NULL 7) Sorting this Pinal list using two Node by given them max value my max value (my max value and chapping the	Question Nos		Marks Awarded
Sorting this final list Using two Node by given them max value mv - max value to 1 2 - 1 1 for the companing and Chapqing the		Lemove and again moving to to next the starting again checking	
the Nocle by given them max value mv - max value to the the state and comparing and chapaing the			
(necking the value and Companing and Changing the		max value my maxical	
companing and changing the		(3) (4) (2) -9 1 (m)	
OW BANCE		comparing and changing the	,
		(1) (3) (3) NULL	
	N		

