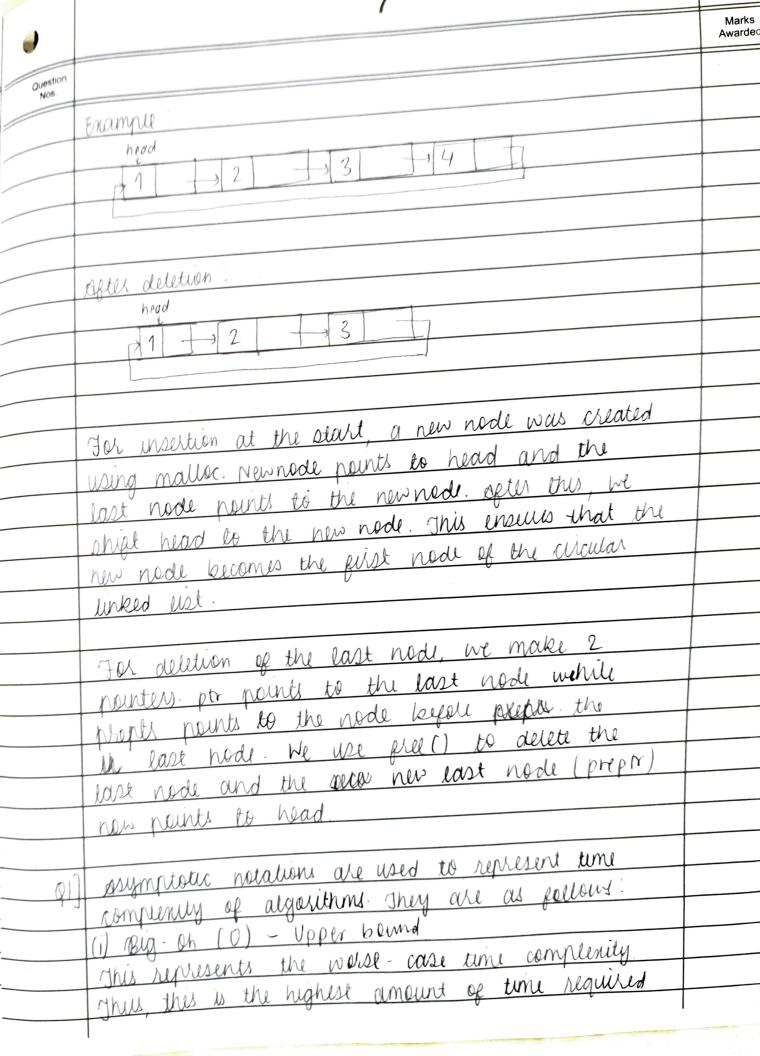
Question Nos.				Mark Awarda
				Awards
93]	guer envess	ilon'.		
	(A+B*	(C-D) ^E)/	(F-G+H*I)	
	character	stack	Expression	
			the second of th	
	₩ A	(	A	
	+	( +	A	History Control
	B	(+	AB.	
	*	(+*	AB	
		(+*(	AB	
	C	(+*(	ABC	
		(+*(-	AB (	
	0	(+*(-	ABCD	
		(+*	AB(0-	
		(+ * ^	ABCO-	
	l t	(+* ^	ABCD-E	
	1		AB(O-E toth 1 X+	

		Marks
Question Nos.		Awarded
	1 / B ABCO-E OUR ^ * 1	
	C /C ABCO-EUU^+++  F /C ABCO-E**  ABCO-E**  F	
	F /C ABCO - E + + F	-
	- /1- AB(D-E)+F	
	G /(- ABCD-EIFG	
	1 /(+ AB(0-E++FG-	
	H /C+ ABCO-EO+FFG-H	
	* /(+* AB(D-E++F6-H	
	I /(++ AB(0-FÎ+FG-HI	
	) / AB(0-F1+FG-HI++	
	ABCD-EAXFFG-HJX+1	
	The final postfor expression is:	
		-
	ABCO-E++FG-HI+/	
02]	assuming that a circular linked list has also	
	already been created with a head pointer pointing to	
	the first node.	
	· ·	
	1. gnsertion at the start  Algo Insert begin  IF (AVAIL = : NULL)	
,		
	Write "SPACE UNAVAILABLE"	
	EISE	
	NEWNODE = AVAIL	
	NEWNOOF - DATA = NEWDATA	
	NEWNODE - NEXT : HEAD"	
	1	
[		

	4	
Question Nos.		Marks Awarded
	WHILE (per - meets 1: Wead) HEAD)	
	pir : ptr > metts NEXT	
	pti > next = @ NEW NODE	
	HEAD : NEWNODE	
	y	
	code in C:	
	void insert-beg (struct node *head)	
	at struct node *pt = head;	
	int val;	
	Struct node * newnode = NULL;	
	newnode = (struct node *) mallor (size of (struct node));	
	newnode > data = vat;	
	newhode > next : head;	
	if (newnode = = NULL)	
	Oxiot C ( U Man and )	1
	printf (" Memory allocation failed ");	, and a second
	3	
	nemnode -> data = val;	
	newhode = next = head;	
	while (ptr + next! = head)	
	ptr = ptr → next;	
	y	
	if (ptr = NVLL)	
	d.	
·	printf ("Not a fircular linked list);	
,		

Question Nos.		Marks Awarde
	Ď	
	ietuin;	
	J. Company of the com	
	ptr > next = newnode;	
	head = newnode,	
	ÿ	-
		-
	2 Deletion of last node	-
	Example	
	71 + 2 + 3 + 7	
	After insultion:	
	head	-
	5 1 2 + 3 1	
	2 Deletion of last node	
	2 Deletion of last node Algo sat of the - Grad PIR = HEAD	
	PREPTR = HEAD	
	WHILE (PTR -) NEXT != HEAD)	
	· C	
	PREPIR = PIRY	
	PTR = PTR >NEXT	
	y.	
	If PIR == NULL	
	Write "Nota Circular Linked List"	
	Go to stop END	



8 ky the algorithm in order to enecule. Question (g(n) no cn g(n) (cg(n) f(n) C7/0 Therefore, this is the worst-case scenario (ii) Big - omega. ( s) - Lower bound This shows the best care time-complexity. This shows the lower bound. The time taken will be equal to or greater than this 'cg(n)  $n \circ \langle n \rangle f(n) > (g(n))$ (70 Therefore, this is the best - case scenario (iii) Big-Theta (0) - Upper and lower boung. This shows the tight bound time complexity, that is the overage case. It montions an upper and a lower bound. (29(n) no < n, (7,0  $C_1g(n) \leqslant f(n) \leqslant C_2g(n)$ C19(n) Therefor, this gives the average time complenity. The time complexity of the function f(n) will always be between c,g(n) and c,g(n). Therefore, it is given a range for the time comprenity. These notations help us analyse the efficiency of algorithms