

Design and Analysis of Algorithms
Department of Computer Sciences
Iqra National University

Faculty: Muhammad Adil *Asst. Prof.* **Mid Semester** **Marks: 30**

Q#1: Convert the following from In-Fix to Pre-Fix and Post-Fix Notation.

- a. $A^2 + D * (G - H)$ 05
- b. $T / S * F - B$ 05
- c. $K + E * (M ^ N)$ 05

Q#2: Design a One Way Linked List for the following record of students. 08

Node#	Address	Data	Link to Next Node
1	575	Asghar	2033
2	2033	Baabar	1500
3	1500	Mudassar	2000
4	2000	Ali	nill

Q#3: Design an Algorithm to traverse a One Way Linked List. 07