

CONTENTS

Subject	Page
I. INTRODUCTION	1
II. REVIEW OF LITERATURE	6
1- pretreatment as growth regulators on.....	6
1-A- vegetative growth.....	6
1-A-1 -Effect of GA ₃	6
I-A-2-Effect of cytokinins.....	10
1-B- Flowering growth.....	12
1-B-1 -Effect of GA ₃	12
I-B-2-Effect of cytokinins.....	19
1-C- Chemical constituents.....	21
1-C-1 -Effect of GA ₃	21
I-C-2-Effect of cytokinins.....	25
1-D- Postharvest characters.....	27
1-D-1 -Effect of GA ₃	27
I-D-2-Effect of cytokinins.....	28
2- Storage treatments on.....	31
A- Postharvest characters	31
B- Water relation characters	36
C- Chemical constituents	37
3- Pulsing solution treatments.....	37
3.1- Effect of sucrose(S) on.....	37
A- Postharvest characters	37
B- Water relation characters	39
C- Chemical constituents	40
3.2 - Effect of cytokinins treatments.....	40
A- Postharvest characters	40
B- Water relation characters	44
C- Chemical constituents	44

3.3- Effect of silver thiosulphate (STS) treatments on.	45
A- Postharvest characters	45
B- Water relation characters	49
C- Chemical constituents	49
4- Holding solution treatments	50
4.1- Effect of sucrose(S) on.....	50
A- Postharvest characters	50
B- Water relation characters	53
C- Chemical constituents	53
4.2- Effect of sucrose (S)+ citric acid(CA) on.....	54
A- Postharvest characters	54
B- Water relation characters	56
C- Chemical constituents	57
4.3- Effect of sucrose (S)+ 8-hydroxyl quinoline salts	
(8-HQS) on	57
A- Postharvest characters	57
B- Water relation characters	60
C- Chemical constituents	60
4.4- Effect of sucrose (S), 8-hydroxyl quinoline salts (8-	
HQS) and citric acid (CA) treatments (S + 8-HQS	61
+ CA) On	
A- Postharvest characters	61
B- Water relation characters	63
C- Chemical constituents	63
5- Effect of the interaction between pulsing solution	
and holding solution	64
treatments on.....	
A- Postharvest characters	64
B- Water relation characters	66
C- Chemical constituents	67
III. MATERIALS AND METHODS	69
IV. RESULTS AND DISCUSSION	88
Part I: The first experiment:(<i>Polianthes tuberosa</i>)	88
I .1 Effect of some growth regulators on.....	88
A- Vegetative growth measurements.....	88