

Contents

CONTENTS

CHAPTER No.	TITLE	PAGE No.
	LIST OF TABLES	
	LIST OF FIGURES	
	LIST OF PLATES	
	LIST OF APPENDICES	
1	INTRODUCTION	1
2	REVIEW OF LITERATURE	5
3	EXPERIMENTAL PROCEDURE	23
4	RESULTS AND DISCUSSION	32
5	SUMMARY AND CONCLUSION	59
	BIBLIOGRAPHY	
	APPENDICES	

LIST OF TABLES

TABLE No.	TITLE	PAGE No.
I	LEVELS OF ENZYMIC ANTIOXIDANTS IN THE PLANT SAMPLES	34
II	LEVELS OF ANTIOXIDATIVE ENZYMES IN THE PLANT SAMPLES	37
III	LEVELS OF NON-ENZYMIC ANTIOXIDANTS IN THE PLANT SAMPLES	39
IV	PROTEIN AND CORBOHYDRATE CONTENT OF THE PLANT SAMPLES	42
V	EFFECT OF PLANT SAMPLES ON INHIBITION OF <i>IN VITRO</i> LIPID PEROXIDATION, SUPEROXIDE AND NITRIC OXIDE GENERATION	44
VI	ANTIBIOTIC SENSITIVITY TEST	46
VII	ANTIBACTERIAL ACTIVITY OF ALCOHOLIC EXTRACT OF THE PLANT SAMPLES AGAINST <i>Escherichia coli</i>	49
VIII	ANTIBACTERIAL ACTIVITY OF ALCOHOLIC EXTRACT OF THE PLANT SAMPLES AGAINST <i>Bacillus subtilis</i>	52
IX	ANTIBACTERIAL ACTIVITY OF ALCOHOLIC EXTRACT OF THE PLANT SAMPLES AGAINST <i>Pseudomonas aeruginosa</i>	54
X	EFFECT OF SEED POWDER OF <i>Syzygium cumini</i> ON THE BLOOD GLUCOSE LEVELS OF DIABETIC PATIENTS	57
XI	EFFECT OF SEED POWDER OF <i>Momordica charantia</i> ON THE BLOOD GLUCOSE LEVELS OF DIABETIC PATIENTS	57

LIST OF FIGURES

FIGURE No.	TITLE	PAGE No.
1.	LEVELS OF ENZYMIC ANTIOXIDANTS IN THE PLANT SAMPLES	35
2	LEVELS OF ANTIOXIDATIVE ENZYMES IN THE PLANT SAMPLES	38
3	LEVELS OF NON-ENZYMIC ANTIOXIDANTS IN THE PLANT SAMPLES	40
4	PROTEIN AND CORBOHYDRATE CONTENT OF THE PLANT SAMPLES	43
5	EFFECT OF PLANT SAMPLES ON INHIBITION OF <i>IN VITRO</i> LIPID PEROXIDATION, SUPEROXIDE AND NITRIC OXIDE GENERATION	45
6	ANTIBIOTIC SENSITIVITY TEST	47
7	ANTIBACTERIAL ACTIVITY OF ALCOHOLIC EXTRACT OF THE PLANT SAMPLES AGAINST <i>Escherichia coli</i>	50
8	ANTIBACTERIAL ACTIVITY OF ALCOHOLIC EXTRACT OF THE PLANT SAMPLES AGAINST <i>Bacillus subtilis</i>	53
9	ANTIBACTERIAL ACTIVITY OF ALCOHOLIC EXTRACT OF THE PLANT SAMPLES AGAINST <i>Pseudomonas aeruginosa</i>	55

LIST OF PLATES

PLATE No.	TITLE	PAGE No.
1.	FRESH AND POWDERED SEED SAMPLES	24
2.	FRESH AND POWDERED LEAF SAMPLES	25
3.	ANTIBIOTIC SENSITIVITY TEST	48
4.	ANTIBACTERIAL ACTIVITY OF ALCOHOLIC EXTRACT OF PLANT SAMPELS AGAINST <i>Escherichia coli</i> , <i>Bacillus subtilis</i> AND <i>Pseudomonas aeruginosa</i>	56

LIST OF APPENDICES

APPENDIX No.	TITLE
I	ESTIMATION OF CATALASE ACTIVITY
II	ESTIMATION OF PEROXIDASE ACTIVITY
III	ESTIMATION OF SUPEROXIDE DISMUTASE ACTIVITY
IV	ESTIMATION OF POLYPHENOL OXIDASE ACTIVITY
V	ESTIMATION OF GLUTATHIONE-S-TRANSFERASE ACTIVITY
VI	ESTIMATION OF GLUTATHIONE PEROXIDASE ACTIVITY
VII	ESTIMATION OF GLUTATHIONE REDUCTASE ACTIVITY
VIII	ESTIMATION OF ASCORBIC ACID
IX	ESTIMATION OF α -TOCOPHEROL
X	ESTIMATION OF REDUCED GLUTATHIONE
XI	ESTIMATION OF POLYPHENOL
XII	EXTRACTION AND ESTIMATION OF TOTAL CAROTENOIDS AND LYCOPENE
XIII	ESTIMATION OF PROTEIN
XIV	ESTIMATION OF CARBOHYDRATE
XV	EXTENT OF INHIBITION OF <i>IN VITRO</i> LIPID PEROXIDATION
XVI	DETERMINATION OF INHIBITION OF SUPEROXIDE PRODUCTION <i>IN VITRO</i>
XVII	DETERMINATION OF INHIBITION OF NITRIC OXIDE GENERATION <i>IN VITRO</i>