CONTENTS

SUBJECT	PAGE
LIST OF ABBREVIATIONS	
LIST OF TABLES	
LIST OF FIGURES	
INTRODUCTION	1
AIM OF THE WORK	3
REVIEW OF LITERATURE:	4
Historical Background	4
Genus Mycobacterium	7
Mycobaacterium Tuberculosis	11
A- Morphology and staining	11
B- Growth requirements	12
C- Identification of M. Tuberculosis	12
D- Cell wall structure	17
E- Antigenic structure	20
F- Reaction to physical and chemical agents	24
Immunology of Tuberculosis	25
Epidemiology of Tuberculosis	34
Pathogenesis of Tuberculosis	41
Laboratory Diagnosis of Tuberculosis	46
Anti-Tuberculous Drugs	63
I. First line drugs	64
II. Second line drugs	66
Treatment regimens	68
Drug resistance	70
Susceptibility Testing of M. Tuberculosis	74
Prophylaxis of Tuberculosis	84
A- Vaccines	84
B- Preventive therapy	86
Apoptosis	89
Tuberculosis and Apoptosis	110
Assessment of Apoptosis	112
SUBJECTS AND METHODS	114
RESULTS	139
DISCUSSION	171
SUMMARY AND CONCLUSION	183
REFERENCES	188
ARABIC SUMMARY	