

CONTENTS

CONTENTS INDEX	Page No
1. Introduction	01-45
1.1. The Sexual Transmission of HIV and Microbicide Strategies	04-11
1.6. Microcapsules	13-13
1.6.1. Methods of Microencapsulation	13-20
1.7. Bioadhesion and Bioadhesive Drug Delivery Systems (BDDS)	20-26
1.9. Vaginal Gel	26-31
1.11. Advances in Intra-Vaginal Drug Delivery System	31-35
1.12. Pharmacokinetic Analysis Of Vaginal Drug Delivery Systems	35-40
1.13. Stability Studies	41-44
1.15. Other Perspective of Vaginal Delivery Systems	44-45
1.16. Reference	45-60
2. Materials	61-61
2.1 List of general chemicals	62-62
2.2 List of Instruments	63-63
2.3 Polymer profile	63-68
2.4 Drug profile	68-71
2.5 References	72-72
3. Experimental	73-73
3.0. Plan Of The Proposed Work	74-74
3.1.0 Experimental Methods With Result And Discussion	75-167
3.1.1. Preparation Of Microcapsules By Ionic Gelation Method And Evaluation Of Prepared Microcapsules	75-76

3.1.2. Preparation Of Microcapsules By Thermal Change Method	76-77
3.1.3. Preparation Of Microcapsules By AZT Microcapsule By Coacervation Phase Separation Technique	77-78
3.1.4. Preparation Of Microcapsules By The Solvent Evaporation Method (I) And Evaluation Of Prepared Microcapsules	78-83
3.1.5. Preparation Of Microcapsules By The Solvent Evaporation O/O Emulsion Method (II)	84-85
3.2.2. Evaluation Of Prepared Microcapsules	86-107
3.6. Preparation Of Microencapsulated Vaginal Gel	108-109
3.7. Evaluation Of Microencapsulated Vaginal Gel	109-130
3.11. Preparation of Microencapsulated Bioadhesive Vaginal Tablet	130-130
3.12. Evaluation of Microencapsulated Bioadhesive Vaginal Tablet	131-136
3.13. Preparation of Bioadhesive Vaginal Film of AZT	137-137
3.13.2. Evaluation OF Bioadhesive Vaginal Film of AZT	138-147
3.13.9. Vaginal Irritation Study	148-149
3.16. <i>In – vivo</i> study of AZMBVG4 in Rabbit Model	151-166
3.17. Viscosity Measurement	167-167
3.19. References	167-173
4.0. Conclusion	175-181
5.0. Other Prospective of Works	183-189
6.0. Achievements	191-192
7.0. List of Presentations And Publications	194-196
8.0. List of Certificate And Other Document	APPENDIX - I