

CONTENT

Chapter	Title	Page No.
1.	INTRODUCTION	1
2.	A REVIEW OF STUDIES OF UV-B EFFECT ON SEED GERMINATION AND EARLY CYTOLOGICAL EVENTS	6
3.	MATERIALS AND METHODS	25
4.	RESULTS AND DISCUSSION	29
4.1	UV-B EFFECT ON RATE AND PERCENTAGE OF GERMINATION IN <u>BRASSICA COMPESTRIS</u> AND <u>ALLIUM CEPA</u> .	29
4.2	UV-B EFFECT ON ROOT-SHOOT RATIO IN <u>BRASSICA COMPESTRIS</u> AND <u>ALLIUM CEPA</u> .	33
4.3	UV-B EFFECT ON MITOTIC INDICES IN <u>BRASSICA COMPESTRIS</u> AND <u>ALLIUM CEPA</u> .	36
4.4	UV-B EFFECT ON CHROMOSOMAL ABERATION ^R IN <u>BRASSICA COMPESTRIS</u> AND <u>ALLIUM CEPA</u> .	40
4.5	UV-B EFFECT ON TOTAL NUCLEIC ACID CONTENT OF <u>BRASSICA COMPESTRIS</u> AND <u>ALLIUM CEPA</u> .	41
4.6	UV-B EFFECT ON CELL CYCLE OF <u>BRASSICA COMPESTRIS</u> .	43
5.	SUMMARY AND CONCLUSIONS	45
6.	REFERENCES	48
	STATEMENT I	62
	STATEMENT II	63