



## Department of Zoology

Faculty of Science

The Maharaja Sayajirao University of Baroda

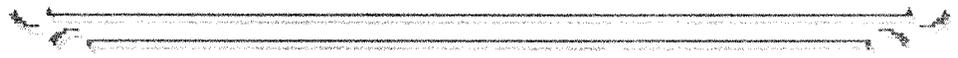
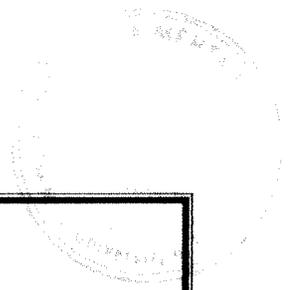
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### CERTIFICATE

This is to certify that the thesis incorporates the results of investigation carried out by the candidate himself in the Department of Zoology, The Maharaja Sayajirao University of Baroda, Vadodara.

(Niraj R. Joshi)  
Candidate

(Prof. A. V. Ramachandran)  
Candidate's guide



*A THESIS SUBMITTED*

*TO*

*THE MAHARAJA SAYAJIRAO UNIVERSITY*

*OF BARODA*

*FOR THE DEGREE OF*

*DOCTOR OF PHILOSOPHY*

*IN ZOOLOGY*

