



CERTIFICATE FROM RESEARCH GUIDE

This certifies that Mr. Shekhar Mukhopadhyay, M.Sc., carried out the investigations incorporated in the thesis entitled "GONADAL DIFFERENTIATION AND SPERMATOGENETIC ACTIVITY IN HIMALAYAN TOAD, *Bufo himalayanus* (Gunther) : ANURA: AMPHIBIA- AN ULTRASTRUCTURAL STUDY", under my supervision and guidance. This thesis which embodies the results of original investigations made by Mr. Mukhopadhyay, have been carried out during the period 1996 to 2001. He has fulfilled all the requirements and regulations relating the nature and prescribed period of research. This thesis is submitted in partial fulfillment of the degree of Ph.D. (Sp.) of the University of North Bengal. This thesis has not been submitted previously anywhere for any degree whatsoever either by him or anyone else.

It may please be noted that he shares equal authorship for all the published works appended to this thesis.

Dated, Darjeeling
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