

PREFACE

The Zoology department of Yashwantrao Chavan Institute of Science, Satara is engaged in the investigations on fishes, the effect of various toxins on the different fishes, also conducting studies Biodiversity of birds, insects, reptiles.

The present dissertation is concerned with, “Histomorphology and Histochemistry in Gonads of Some Larvivorous Fishes in Krishna and Yerala River in Sangli District (MS)” .

It was decided to divide the present thesis into five chapters. The first chapter being an introduction giving a brief review of the literature on Larvivorous fishes, reasons that stimulated to take into consideration the present work and plan of proposed work.

The second chapter is devoted to detailed description of the material used and methodology and techniques employed in the present investigation.

The third chapter deals with observations of histological and histochemical techniques in reproductive organs such as testes and ovary in *Poecilia reticulata*, *Chanda ranga* and *Puntius sophore* for their sexual cycle.

Fourth chapter deals with discussion and concluding remarks based on the observations as compared with the available literature on Larvivorous fishes. The results are supported by photomicrographs of histological and histochemical techniques.

Fifth chapter comprises of summary of the present dissertation in brief and some concluding remarks derived, based on the observations made in the Larvivorous fishes.

At the end of the thesis, some ideas for the scope for future work on the study of Larvivorous fishes are given in brief. The thesis ends with a Bibliography of exhaustive literature cited in this thesis.