

A Manual of Practical Zoology

Biodiversity, Cell Biology, Genetics
& Developmental Biology

PART-1



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Part - 1

(Biodiversity, Cell Biology, Genetics and Developmental Biology)

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PREFACE

The present book entitled '**A Manual of Practical Zoology**' (Part 1) is written according to new and revised syllabi of UGC adopted for B.Sc. Pt. 1 of various universities including Rajasthan University, Jaipur and its affiliated colleges and some other universities started new in Rajasthan and elsewhere. It consists of 7 Units. Unit first envisage working of microscopes, culture methods and museum specimens of invertebrates. The specimens have been described in a unique style as the information on vital aspects of Eco biology of the type concerned *viz.* Habit and habitat, Distribution, Characters of identification, Special features, Biological importance and Economic importance (if any) have been given. These are the points on which the marks of the spots are distributed. Standard culture methods for protozoans have been described. Note on vermiculture is also given as it is gaining popularity now a days. Unit second covers the anatomy. Easy drawings have been incorporated and *in situ* figures of various anatomical structures have been given. Unit third covers permanent slides and fourth with exercises in cell biology. Fifth and Sixth Units are on genetics and developmental biology respectively. Unit seventh covers simple exercises on Biodiversity. As per the guidelines from UGC, many universities have discontinued dissections and anatomy has been replaced by Biodiversity based exercises. M.S. Braj University has added Biodiversity study in Practical curriculum. The language is easily understandable and the figures are easy to draw. The overall presentation of the text is unique. We hope it shall be preferred by the students and teachers. Additional informations wherever needed have been given.

Teachers and friends have been helpful in one way or other. We express our deep sense of gratitude to them. We thank Shri Pawan Kumar and Tanay Sharma of Scientific Publishers (India), Jodhpur for bringing this Manual in very short time.

Suggestions of teachers, colleagues and students are invited.

Authors

Bharatpur
10.10.2018

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