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FOR B.SC. 3RD SEMESTER (GU) & 4TH SEMESTER (DU), ZOOLOGY (SEC)

ORNAMENTAL FISH KEEPING IN AQUARIUM

**ABHIJIT
SONOWAL**

**LATASHREE
KALITA**

**SYEDA NILUFAR
RAHMAN**



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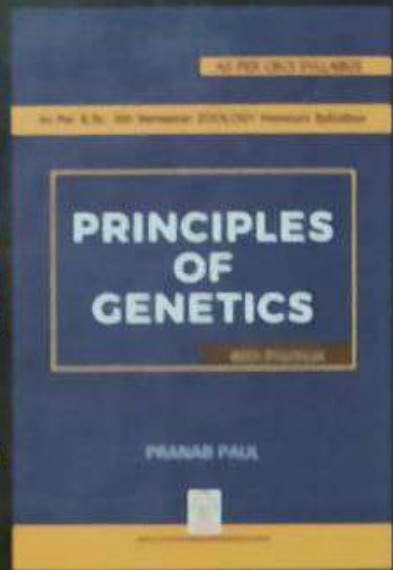
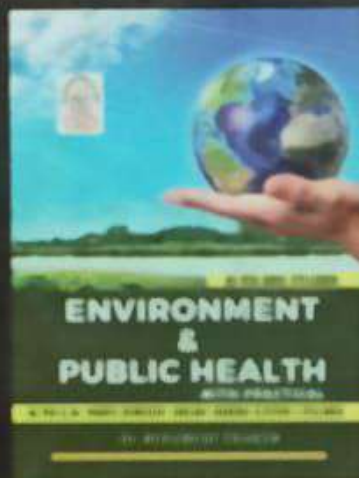
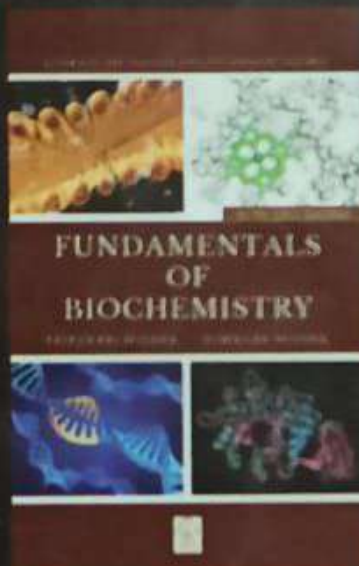
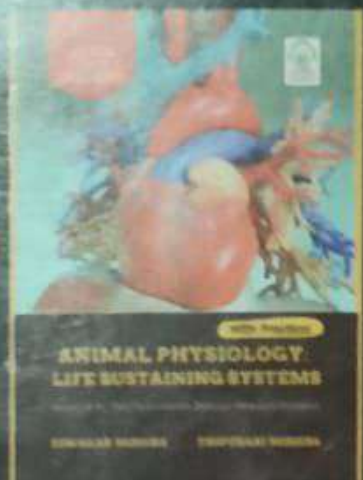
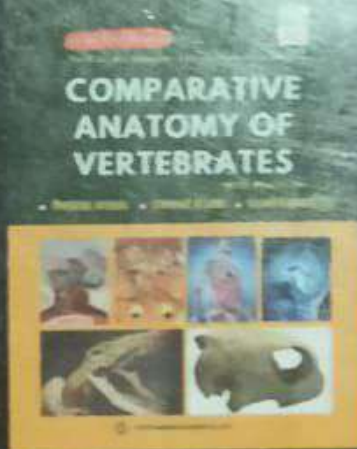
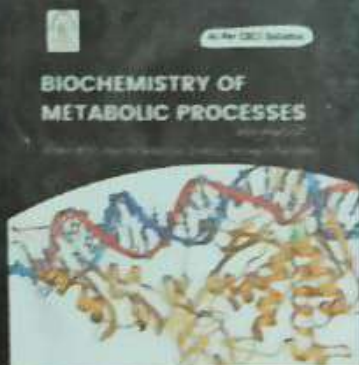
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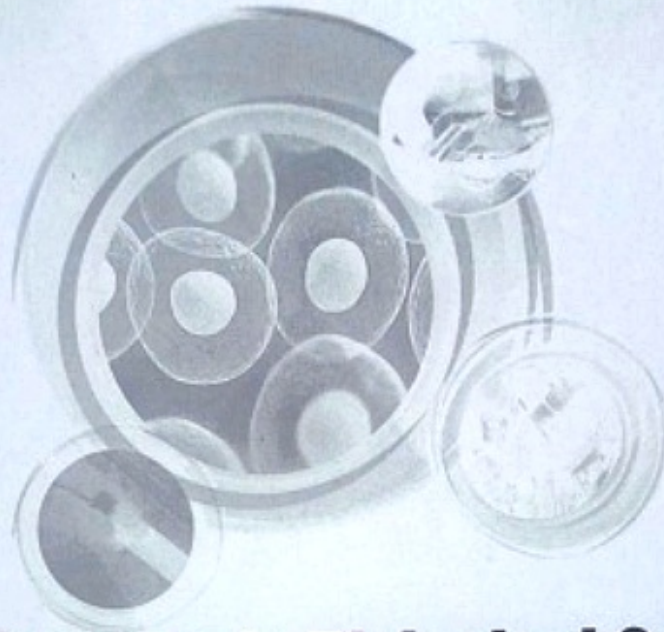


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Chapter 14 :

**STUDIES ON FEEDING DETERRENT PROPERTIES OF
PLANTS IN KALIABOR SUB-DIVISION, ASSAM AGAINST
ASSAMESE MACCAQUE (*Macaca assamensis*)**

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ABSTRACT

A study of plants having feeding deterrent properties against Assamese macaque (*Macaca assamensis*) in Kaliabor sub-division, reveal that water extracts in various concentration of the plants *Bacopa monnieri* 30% W/V (Brahmi), *Cymbopogon nardus* 30% W/V (Citronella), *Azadirachta indica* 30% W/V (Neem) shows high deterrent properties whereas *Colocasia esculenta* 50% W/V (Taro) shows mild deterrent properties. Also, Essential Oils of *Cymbopogon nardus*, *Cinnamomum verum* showed feeding deterrent property against Monkeys. All the plants showed to have active deterrence for a maximum of 72 hours. Crude extract obtained from the plants and were diluted with water at various concentration (W/V). Ripe Bananas were dipped for 15 mins in the diluted sample and were offered to the monkeys.

Keywords : Plant Extract, Monkey, Anti-feedent properties, Assamese Macaque, Essential oils.

INTRODUCTION

Primates are often cited as one of the major agricultural pests, which cause efficient damage to the agricultural fields and crops, in addition it impose more time and energy costs on farmers who have to protect their crops against them (Boulton et al. 1996; Naughton-Treves 1997). Farmers use several strategies to protect their crops from devastating wild animals worldwide but none of them had provided complete protection because of varied nature of the animals and the taxa involved (Kolowski and Holekamp, 2006). Protective measures like modification in cropping patterns, cultivation of medicinal and ornamental