

LIST OF TABLES

Table 2.1	Temperature data of the year 2004 and 2005	12
Table 2.2	Humidity (%) during the year 2004 and 2005	12
Table 4.1	Average density/100m ² /month of nine amphibian species	54
Table 4.2	Estimation of species diversity, evenness and niche breadth of amphibian population at the study sites	54
Table 4.3	Percentage occurrences of amphibians during the study period	54
Table 4.4	Percentage species richness of amphibians in different study sites	55
Table 4.5	Ecological distributions of amphibians in the study sites	55
Table 4.6	Habitats of different species in the study sites	56
Table 4.7	Microhabitat of amphibians in the study sites	56
Table 4.8	Comparison of study sites by similarity coefficients	57
Table 4.9	Comparison of study sites by coefficient of community	57
Table 4.10	Niche breadth of different amphibian species	58
Table 4.11	Niche overlap of amphibians at Timbi	58
Table 4.12	Niche overlap of amphibians at Sindhrot	58
Table 4.13	Niche overlap of amphibians at MSU campus	59
Table 4.14	Niche overlap of amphibians at Fofalia	59
Table 5.1	Snout-vent length of male and female <i>Bufo stomaticus</i> and <i>Microhyla ornata</i> during the breeding season	83
Table 5.2	Certain reproductive and developmental parameters of <i>B. stomaticus</i> and <i>M. ornate</i>	83
Table 5.3	Morphometric measurements (in mm) of the tadpoles of <i>B. stomaticus</i> ($X \pm SD$)	83
Table 5.4	Features of oral disc in <i>B. stomaticus</i> tadpoles	84
Table 5.5	Morphometric measurements (in mm) of the tadpoles of <i>M. ornata</i> ($X \pm SD$)	84
Table 5.6	Physicochemical parameters of the water bodies at the study site	85
Table 5.7	Summary of pH tolerance level by <i>B. stomaticus</i> and <i>M. ornata</i> tadpoles	85
Table 5.8	Density=number of tadpoles/m ²	86
Table 5.9	Linear relationships between density of the <i>B. stomaticus</i> tadpoles and physicochemical variables of the water bodies	86
Table 5.10	Linear relationship between density of the <i>M. ornata</i> tadpoles and physicochemical variables of the water bodies	86
Table 5.11	Vegetation around the water bodies of tadpoles of <i>B. stomaticus</i> and <i>M. ornate</i>	86
Table 5.12	Percentage of food items in the gut of tadpoles of <i>B. stomaticus</i>	87

LIST OF TABLES

Table 5.13	Percentage of food items in the gut of tadpoles of <i>M. ornata</i>	88
Table 5.14	Distribution of potential predators in both the study sites	88
Table 5.15	Summary of principal component analysis (PCA) of microhabitat variables	89
Table 5.16	Values of the physicochemical parameters from PCA of the study sites	89
Table 5.17	Cluster analysis similarity matrix of the study sites during the study period 2004 and 2005	89
Table 6.1	Physicochemical parameters of the water bodies during summer 2005	119
Table 6.2	Physicochemical parameters of the water bodies during winter-2005	119
Table 6.3	Physicochemical parameters of the water bodies during monsoon 2005	119
Table 6.4	Heavy metal content ($\mu\text{g g}^{-1}$ dry wt) in the liver of the frog, <i>Euphlyctis cyanophlyctis</i>	120
Table 6.5	Heavy metal content ($\mu\text{g g}^{-1}$ dry wt) in the kidney of the frog, <i>Euphlyctis cyanophlyctis</i>	120
Table 6.7	Heavy metal content in the water bodies at the study sites ($\mu\text{g/ml}$)	120
Table 6.8	Correlation coefficients assessing the relationships between nickel and cadmium concentrations in the liver and kidney of <i>E. cyanophlyctis</i> at the polluted sites	120
Table 6.9	Relative size of stratum corneum and stratum granulosum in selected anuran species.	121