

1. Introduction

- 1.1 Concept and significance of biological diversity
- 1.2 Types of protected areas
- 1.3 Status and trends of wildlife management in various protected areas
- 1.4 Criteria for the selection of protected areas
- 1.5 National Biodiversity Action Plan
- 1.6 National Biodiversity Database
- 1.7 South Asia Regional Action Plan for Protected Areas

2. Biodiversity status of Nepal

- 2.1 Zoogeography and phylogeography
- 2.2 Biodiversity profile of Nepal
- 2.3 Distribution, status and population trend of various flora and fauna in Nepal
- 2.4 Plant ecology and forest types of Nepal
- 2.5 Protected and alien species
- 2.6 Threats to biodiversity
- 2.7 INGO's, NGO's and CBO's in conservation

3. Approaches to Biodiversity Conservation

- 3.1 Principles of Conservation Biology
- 3.2 Gene and Species Conservation
- 3.3 Ecosystem Approach to Conservation
- 3.4 Landscape and Eco-region Approach
- 3.5 In-situ and Ex-situ Conservation
- 3.6 Trans-boundary issues and solution

4. Protected Area Planning

- 4.1 Basic elements for planning the protected areas
- 4.2 Planning models: conventional planning and modern planning
- 4.3 Levels of planning (Long term, mid term, short term, master/system plan, management plan and site plan)
- 4.4 Planning steps
- 4.5 Components of a plan
- 4.6 Management consideration for biodiversity conservation (Zoning, corridor and connectivity, Buffer Zone Island theory, Metapopulation etc.)
- 4.7 Management plan models (regional and national)
- 4.8 GIS derived information application
- 4.9 Logical framework application (Monitoring indicators and means of verification)
- 4.10 New trends in wildlife crime and anti poaching strategy

5. Protected Area management

- 5.1 Current research approaches
- 5.2 Assessment of research gaps and prioritization
- 5.3 Research methodology for population ecology, habitat use and park-people interaction
- 5.4 Methods of wildlife census

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नेपाल वन सेवा, नेशनल पार्क्स एण्ड वाइल्ड लाइफ समूह, राजपत्रांकित प्रथम श्रेणी, सहसचिव वा सो सरह पदको खुला र आन्तरिक प्रतियोगितात्मक लिखित परीक्षाको पाठ्यक्रम

- 5.5 Vegetation analysis
- 5.6 Wildlife disease and prevention measures
- 5.7 Research needs identification and research design
- 5.8 Translocation
- 5.9 Wildlife medication and problem animal management
- 5.10 Orphan management
- 5.11 Watershed management
- 5.12 Wet land management
- 5.13 Habitat management

6. Human dimensions in biodiversity conservation

- 6.1 Parks and people in interaction and its impact on conservation
- 6.2 Conflict management
- 6.3 Sustainable utilization
- 6.4 Community mobilization in conservation and awareness
- 6.5 Culture and conservation

7. Economics of protected area

- 7.1 Value adding to the biological resources
- 7.2 Cost benefit analysis
- 7.3 Nature based eco-tourism
- 7.4 Enterprise based conservation

8. Convention and its implementation

- 8.1 Global and regional conservation policies and conventions
- 8.2 CBD, RAMSAR, CITES, WORLD HERITAGE and GTF in Nepalese context.

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