



UNIT – I

Forest Ecology

Basic ecological principles and concepts.

Abiotic and Biotic Components of forest ecosystem.

Fundamental Concepts Related to energy in Ecological system. Food chain, food web and Tropic structure.

Ecological Pyramids.

Biotic Community Concept.

UNIT-II

Wildlife Management

Wildlife Conservation and Management

National Parks and Sanctuaries.

Project Tiger

Vanishing Species.

UNIT-III

Wildlife Protection Act

General idea of wildlife protection act, 1972.

UNIT- IV

Forest Policies

Brief idea of Forest policies of 1984, 1952, 1988.

Need for new policy.

UNIT - V

Forest Law

Brief Knowledge of Indian Forest act, 1927

Forest Conservation act, 1980



UNIT – I

Forest Soils

Definition and Function of Soil, Importance of Soil
Soil Formation, Soil Properties and Soil pollution

UNIT-II

Forest Pathology

Definition, kinds of symptoms of diseases, methods of control , Root Diseases and their control, Heart Root, Nursery diseases, Common Diseases in Selected Forest Tiger.

UNIT-III

Forest Entomolgy

Classification of class insecta with distinguishing characters, Pests of Important Forest Trees and their control, Pests of Nurseries.

UNIT- IV

Forest Protection

Introduction, Factors affecting forest protection and kinds of forest protection measures, Protection of forest crop Injuries by-Man, Animals, Plants, Adverse climatic factors.

UNIT - V

Forest Engineering

Building Materials, Building Construction, Forest Roads, Forest Bridges

List of Reference books:

1. Forest Entomology - B.K. Bakshi.
2. Ecology and Environ Soi -Rastogi Publication
3. Wildlife Management -S.S.Negi/L.S. Khanna
4. Indian forest act - Manual
5. Forest Laws and Policies - Manual
6. Soil Seine -Deji
7. Forest Patrol by -Restom
8. Forest Enquiring -L.S. Khanna
9. Reads Bridges -L.S. Khanna
10. Introduction of Ecology -E.P. Odum



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SYLLABUS B.SC. PART-III

FORESTRY PRACTICAL

MM: 50

List of Practicals

1. Ecology - Quadrates for density abundance and frequency.
2. Study of components of forest ecosystem.
3. Visit to National Park or Wildlife Sentry.
4. Study of Soils.
5. Soil pH