



UNIT- I

Social Forestry

Scope, object and type, important social forestry schemes, economic benefits of social forestry

UNIT- II

Joint Forest Management

Definition, scope and objects, People's participation in JFM, constraints in obtaining people's participation

UNIT- III

Forest Management

Definition, scope and objects,

Brief idea of the following-

- a. Growing stock
- b. Rotation
- c. Sustained yield
- d. Normal forest

UNIT- IV

Forest Measurement

Definition, scope and object, measurement of height of trees, measurement of diameter of trees, measurement of girth of tree

UNIT- V

Forest Organisation

Geographical, climatic and functional classification,

Legal classification,

Territorial classification,

Administrative (organizational) classification,

Management (Silvicultural) classification- working circle, felling series, cutting section, coupes and periodic bricks



UNIT- I

Wood Anatomy

Introduction, anatomical structure of wood, physical properties of wood, mechanical properties of wood.

UNIT- II

Logging

Felling and conversion, transport, storage, grading of timber

UNIT- III

Minor Forest Products

Definition of minor forest product

General idea of following MFPs of India –

- a. Fuel wood
- b. Fibre and flosses
- c. Grass, Bamboo
- d. Essential oils
- e. Oilseed
- f. Tans and dyes
- g. Medicinal plants

UNIT- IV

Forest Based or Wood Based Industries

Pulp and paper, Cutch and Katha, Lac and manufacture of shellac, Resin tapping and manufacture of turpentine and rosin, Charcoal burning

UNIT- V

Forest and Tribals

Life and livelihood: Tribal's, tribal's and forests, constitutional safeguards, tribal welfare and development

REFERENCE BOOKS

1. Forestry for people- S.A. Shah
2. Social forestry- S.S. Negi
3. Forest management- Ram Prakash
4. A hand book of forest utilization- Mehta
5. Theory & practices of Silvicultural systems- Ram Prakash and Khanna
6. Forest mensuration- Chaturvedi and Khanna
7. Forestry in India- V.P. Agrawal
8. Bharat ki janjatiyan- Dr. Shiv Kumar Tiwari
9. Tribal in India- Nadeem Hasnain



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SYLLABUS B.SC. PART-II

FORESTRY PRACTICAL

MM: 50

List of Practicals

1. Measurement of Diameter, girth, height etc.
2. Nursery management
3. Handling of nursery stock
4. Field planting methods