

UNIVERSITY OF CALCUTTA

B.Sc. General Semester - VI, Examination - 2022 (Under CBCS)

Roll no = 193044 - 12 - 0003

Registration no = 044 - 1212 - 0490 - 19

Subject = Botany

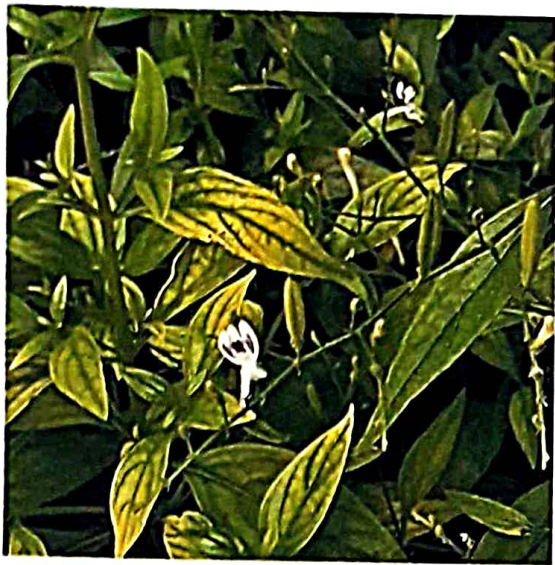
Botany Department
Muralidhar Girls' College
Kolkata-700029

~~Semester~~ = VI

Field report on local economically important plants.

FIELD REPORT ON
LOCAL ECONOMICALLY IMPORTANT
PLANTS

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Andrographis paniculata (Kalmegh)

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Ocimum tenuiflorum (Holy Basil)

Medicinal Plants

1) Scientific name :-

Andrographis paniculata (Kalmegh).

Part uses :- whole plant, leaves and roots.

Uses :- whole plant :- Used in fever, general debility, dysentery, dyspepsia, soaked in water for a night and the water is taken in empty stomach to cure scab, leprosy and whooping cough, improves liver function.

Leaves :- Used to relieve griping, in cases of irregular stools, loss of appetite, parts made into tablets and consumed to improve digestion and liver function.

Roots :- Give to children to cure general debility.

2) Scientific name :-

Ocimum tenuiflorum (Holy Basil), ^{roots}

Part uses :- whole plant, leaves, and seeds.

Uses :- whole plant, leaves and seeds :- Used as stomachic, demulcent, digestive, diuretic, expectorant, vermifuge, alexeteric, useful in cardiopathy, haemopathy, asthma, lumbago, otalgia, skin disease

Seeds :- Used as purgative, used to treat genito-urinary disorders, boils.

whole plant :- Used in cases of snakebite and scorpion sting, leucoderma.

Roots :- Useful in malarial fever.

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Saraca asoka (Ashok)

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3) Scientific name :-

Saraca asoka (Ashok)

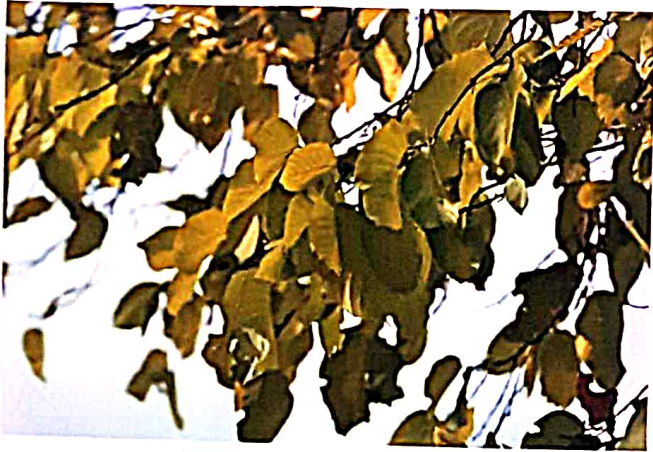
Part uses :- Bark, flowers, seeds.

Uses :- Bark :- Used to treat leucorrhoea, menorrhagia, rheumatism, bloody piles and heart disease.

Flowers :- Used as uterine tonic, used in biliousness, hemorrhagic, dysentery and diabetes.

Seeds :- Used in dysentery, and skin disease.

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Shorea robusta (Sal)



Tectona grandis (Teak)

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Timber Yielding Plant

1) Scientific name:-

Shorea robusta (Sal)

Part uses:- wood and leaves.

Uses:- 1) The heartwood of sal is very hard, heavy and extremely tough, having the reputation of being one of the most eminently suited for sleepers.

2) The wood is also extensively used for constructional purpose, such as beams, flooring, piles, carts, tent pegs etc.

3) On tapping, the sal tree gives out an oleoresin, known as sal dammar, which is used in the making of varnish.

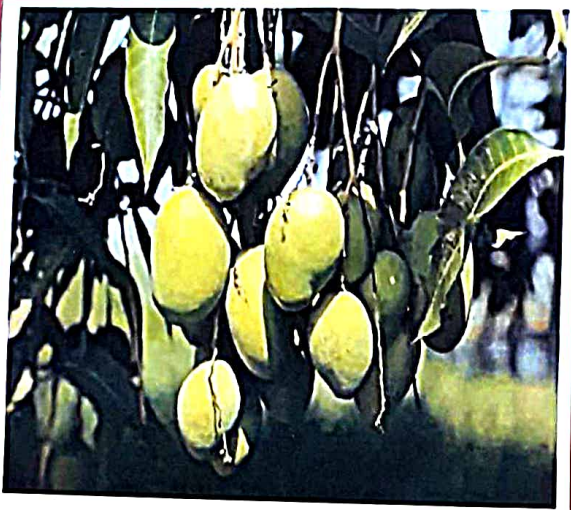
2) Scientific name:-

Tectona grandis (Teak)

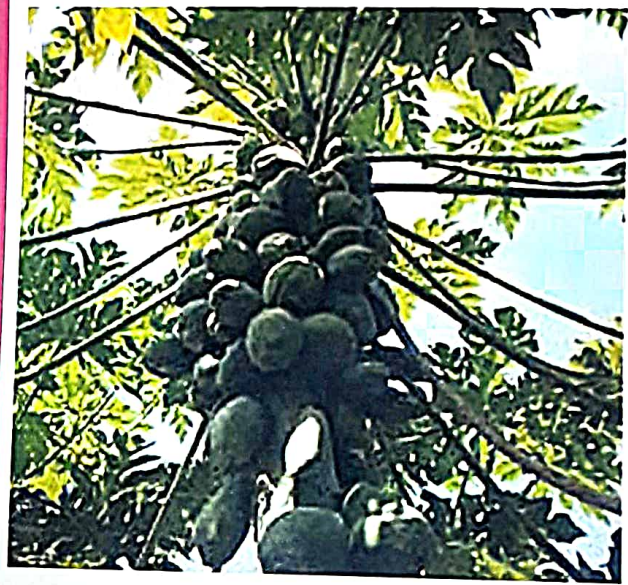
Part uses:- wood and leaves.

Uses:- 1) It is one of the best timbers in the world and is used as a standard for comparison to other timbers. It is the chief railway carriage of India.

2) Its wood is used in house construction, boats, turnery, brush backs, toys, flooring, greenhouse construction and piles.



Mangifera indica (Mango)



Carica papaya (Papaya)

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Fruit Plant

1) Scientific name:-
Mangifera indica (Mango)

Part uses:-

Uses:- • Ripe fruits are mostly eaten fresh as a dessert fruit, but are used in pickles and other culinary preparations.

• The juice of the mango fruit is dried in the sun to form solid sheets called mango leather which is a pliable sour, sweet product.

• Even the kernel inside the stone is roasted, powdered and then cooked into a gruel.

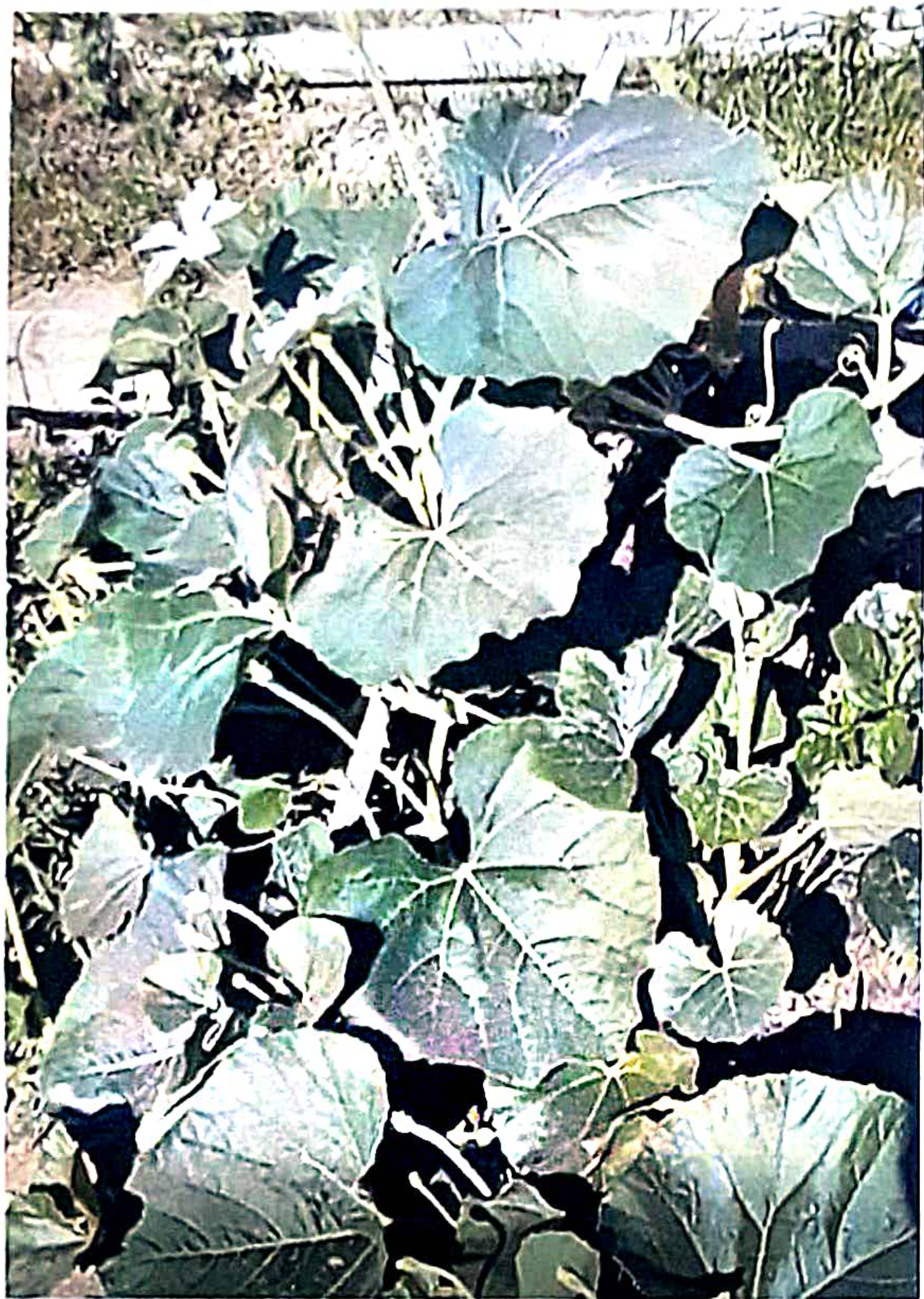
2) Scientific name :-
Carica papaya (Papaya)

Part uses:- Fruit

uses:- • Ripe fruit contain about 8-10 per cent sugars and are rich in vitamins, in particular A, B₁, B₂ and C. They may be consumed fresh as a breakfast fruit, mixed fruit salads, preserves or jellies.

• The papain is used in canned meats and in meat-tenderising preparations as well as in pharmaceuticals as mild laxative.

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Lagenaria siceraria (Lau Shak)

Plants used as vegetables

1) Scientific name:-

Legonaria siceraria (Lau shak)

Parts used :- whole plants, fruit, leaves, stem.

Uses :- 1) It is a vegetable food also used as a traditional medicine.

2) It is reported to have immunomodulatory, antioxidant, antistress, analgesic and adaptogenic antioxidant; anti-inflammatory properties.

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Jasminum officinale (Jasmine)



Rosa sp. (Common Rose)

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Essential Oil

1) Scientific name:

Jasminum officinale (Jasmine)

Parts used: Flower

Uses: 1) Jasmine absolute is the most important and indispensable of the natural perfumes, blending well with practically any other perfume.

2) It is much used in modern perfumery and cosmetics and has become popular in air fresheners.

2) Scientific name:

Rosa sp. (Common Rose)

Parts used: Flower

Uses: 1) Rose oil is largely used in perfumes, scenting soaps, flavouring soft drinks, liqueurs and certain types of tobacco, particularly small or chewing tobacco.

2) In India, rose petals are converted into a preserve with sugar which is a good tonic with mild laxative properties.

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Tagetes erecta (Marigold)



Brassica campestris (Mustard)



Flowering Plants

1) Scientific name:-

Tagetes erecta (Marigold)

Part uses:- Flower

Uses:-

- 1) The Aztecs gathered the wild plant as well as cultivating it for medicinal, ceremonial and decorative purpose.
- 2) It is widely cultivated commercially with many cultivars is use as ornamental plants, and for the cut-flower trade.

Vegetable oil

1) Scientific name:-

Brassica campestris (Mustard)

Part uses:- Seeds

Uses:-

- 1) The oil extracted from rape and mustard is used almost entirely for edible purpose such as salad and cooking oils and in margarine.
- 2) General purpose greases, lubricants, soaps and synthetic rubber are important industrial products for which the oil is used.
- 3) Superior grades of oil are used as an illuminant and also as a cutting oil.

S. Sumanthony
18-07-22.

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