

Ramgani Girl's College
Department of Geography
B.Sc Honours 1st Semester

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Course Name : Environment Studies

Course Code : AEE101

Topic of the project :

Qualitative Study of Medicinal Plants

A Project Report

Submitted by Semester-1 Students

(Academic Year - 2021-2022)

Raniganj Girls' College

Course Name: Environment Studies

Course Code: AEE101

Topic of the project: QUALITATIVE STUDY OF MEDICINAL PLANTS

A Project Report

Submitted by Semester-I students

(Academic Year 2021-22)

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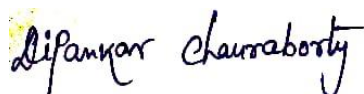
CERTIFICATE

This is to certify that this project titled “QUALITATIVE STUDY OF MEDICINAL PLANTS” submitted by the students for the award of degree of B.A. Honours/ Program is a bonafide record of work carried out under my guidance and supervision.

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Place: Raniganj

Date: 07.03.2022



State Aided College Teacher-II, Department of Geography

Signature of the supervisor with designation and department



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REGISTRATION CERTIFICATE

This is to certify that RIYA GORAI

Son/Daughter of ASHIS GORAI

of RANIGANJ GIRLS' COLLEGE

is registered as a student of this University,

His/Her registration number is 113211220056 of 2021




Registrar

Acknowledgement

I would like to express my special thanks of gratitude to our respectful teacher Mr. Dipankar Chakrabarty - Department of Geography Raniganj Girls' College for his sincere support and co-operation in the preparation of this project of B.Sc. honours in Geography, Semester - I, Environmental studies (AEE101)

Date : 07.03.2022

Riya Boroi
Student's Signature

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Aims and objective of the project

Aims and objective of Medicinal plants:

1. Promotion of cultivation and conservation of medicinal plants. To identify the plants to be conserved/cultivated in situ of the different agro-climatic regions of the state and those to be cultivated/conserved in the fields.
2. To develop cultivation techniques (agro-techniques) including quality plant materials, Irrigation, Fertilizer, Plant protection, Post harvest Collection and Processing, which are cost effective in different agro-climatic regions of the state.
3. Cultivation of some medicinal plants which fair well only in the state ecosystem as intercropping in and around the forest area.
4. To create optimum awareness and interest amongst the common people about Medicinal plants.
5. To increase public awareness about the efficacies of herbal drugs.

Medicinal plants also called medicinal herbs, have been discovered and used in traditional medicine practices since prehistoric times. Medicinal plants such as Aloe, Tulsi, Neem, Mayantara, Patharkuchi, Turmeric, and Ginger etc. cure several common ailments. These are considered as home remedies in many parts of the country.

I chose Aloe vera for this project.

Introduction

Aloe vera, a cactus-like plant has been used for traditional medical purposes for thousands of years. Aloe leaves can be separated into two basic products: the latex a bitter yellow liquid beneath the epidermis of the leaf and the gel, a colorless and tasteless substance in the inner part of the leaf. Both of them have many biologically active components, mainly anthraquinone and polysaccharides (the most active is acemannan), which may act alone or in synergy. Scientific studies provide support for the application of Aloe vera in cosmetic moisturizers, toothpastes etc, food as flavoring compounds or preservative of fresh products and in medicine of human or animals. Aloe vera seems to treat a variety of conditions because of its wound healing, anti-inflammatory, immunity, antidiabetic, antioxidant, antifungal, antiviral and antitumor effects. Besides these applications it can be also included in the animal diet to utilize their benefits to the maximum extent.

Materials and Methods used of Aloe Vera

Cosmetic uses: Generally, Aloe vera has many uses both for humans and animals. Three distinct preparations of the plant are used: Aloe vera latex, Aloe vera gel and Aloe vera whole leaf extract, whose biological ingredients may act alone or in synergy. The use of Aloe vera in cosmetics is not new. There are many of them on the market which use Aloe vera in concentration varying from 1 to 98%. It is well known that Aloe gel enables the plant to hold moisture for extremely long periods of time and has soothing effects as well. So Aloe vera has found an extensive application in the cosmetic and toiletry industries, mouthwash, shaving cream, deodorants and shampoos.

Food Uses: The food and beverage market is a promising arena for Aloe vera. It has been used as a resource of functional food such as yogurt or for the preparation of health drinks, including tea. It has been used as a resource of functional food such as yogurt that botanical products are widely used as nutritional supplement for promotion of health or prevention of diseases.

Medicinal Uses: - **Healing wounds:** Due to polysaccharides and the growth hormone gibberelins, increased collagen and elastin formation may reduce wrinkling. The high holding capacity of Aloe vera is

to find out a number of mucopolysaccharides (MPS) present between 10,000-20,000 MPS per litre. Moreover, Aloe vera effects are in treatment of scar tissue and the prevention of scar formation following injury to the skin, probably are attributed to the activity of amino acids necessary to new cell formation and due to the ability of its enzymes to enzymes to promote regeneration of the deepest layers of the skin.

Conclusion

Medicinal plants are considered as a rich resources of ingredients which can be used in drug development either pharmacopoeial non-pharmacopoeial or synthetic drugs of human culture around the whole world.

So, steps must be taken for the conservation of these medicinal plants. Conservation of medicinal plants can be accomplished by the ex-situ or in-situ cultivation.

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